

# character's guide to digital painting in Photoshop:

# beginner's guide to digital painting in Photoshop: COCCTES







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# **Contents**

Introduction

Getting started	10
Setting up your canvas	12
Overcoming a blank canvas	20
Setting up your brushes	28
Setting up your color swatches	36
Establishing your character	42
Form and anatomy	44
Character types	54
Composition and positioning	62
Storytelling and moods	72
and the second second	
Character generation	80
Body type and skin	82
Designing and painting the face	88
Painting bair	96
Designing a costume	104
Pose and background	112
Creative workflows	120
	4000
Desert man	122
Sci-fi female	134
	142
Medieval jester	
Merchant trader	150
Merchant trader	
Merchant trader  Quick tips	160
Merchant trader  Quick tips  Hair	160 162
Merchant trader  Quick tips  Hair  Skin	160 162 167
Merchant trader  Quick tips  Hair  Skin  Ears and eyes	160 162 167 172
Merchant trader  Quick tips  Hair  Skin  Ears and eyes  Nose and mouth/lips	160 162 167 172 176
Merchant trader  Quick tips  Hair  Skin  Ears and eyes  Nose and mouth/lips  Fur and clothing materials	160 162 167 172 176 181
Merchant trader  Quick tips  Hair  Skin  Ears and eyes  Nose and mouth/lips	160 162 167 172 176
Merchant trader  Quick tips  Hair  Skin  Skin  Nose and mouth/lips  Fur and clothing materials  Accessories	160 162 167 172 176 181
Merchant trader  Quick tips  Hair  Skin  Ears and eyes  Nose and mouth/lips  Fur and clothing materials	160 162 167 172 176 181 185
Merchant trader  Quick tips  Hair  Skin  Skin  Nose and mouth/lips  Fur and clothing materials  Accessories	160 162 167 172 176 181 185
Merchant trader  Quick tips  Hair  Skin  Ears and eyes  Nose and mouth/lips  Fur and clothing materials  Accessories  Breakdown gallery	160 162 167 172 176 181 185
Merchant trader  Quick tips  Hair  Skin  Ears and eyes  Nose and mouth/lips  Fur and clothing materials  Accessories  Breakdown gallery	160 162 167 172 176 181 185
Merchant trader  Quick tips  Hair Skin Ears and eyes Nose and mouth/lips Fur and clothing materials Accessories  Breakdown gallery  Glossary	160 162 167 172 176 181 185 188
Merchant trader  Quick tips  Hair Skin Ears and eyes Nose and mouth/lips Fur and clothing materials Accessories  Breakdown gallery  Glossary	160 162 167 172 176 181 185 188



# Introduction

The entertainment industry relies on the narrative pull and believability of a character, and that character starts its life in the hands of a concept artist. With a need for powerful and flexible tools to create these unique and refined character designs, the popular method of choice among concept artists in the industry is digital painting in Photoshop. Offering not only the advantages of ease and speed, but also the ability to dramatically alter the colors of your image and use custom brushes to create impressive and credible textures, It really is an extraordinary outlet in which to hone your creative skill set.

Browsing through the most impressive 2D character concepts online, as well as in books, films, and games, you will find a vast variety of designs in many different styles. So how do you begin to find the right style for you and put your ideas into practice? Figuring out the way your characters will took and act is definitely not an easy task. Shapes, colors textures, and values are an

important part of character design, holding the power to dramatically change the mood, narrative, and those all-important elements that make a character recognizable.

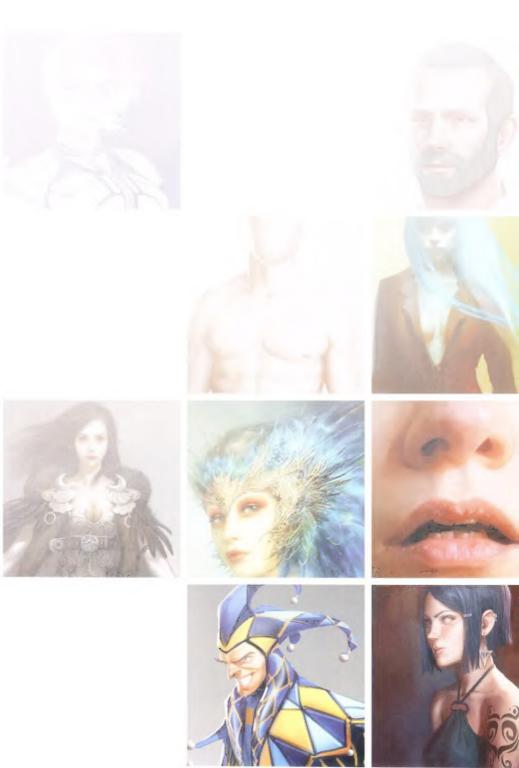
To guide you through your creative learning, we have gathered a selection of skilled, professional digital artists to lead you through the fundamentals behind digitally painting characters. At the back of the book you'll find an invaluable glossary written by the brilliant Bram "Boco" Sels, covering all the essentials to get you started — plus you can refer back to it while reading through the more detailed project overviews that the book has to offer.

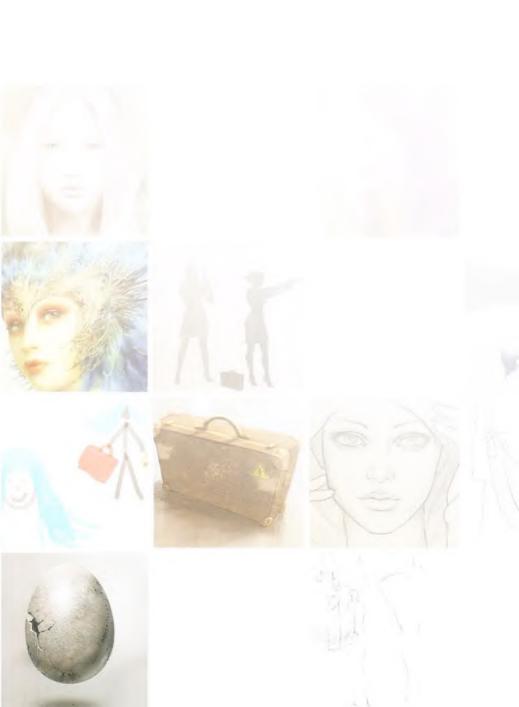
From setting up your interface and tools with characters in mind, to in-depth creative workflows packed full with top tips and advice, Beginner's Guide to Digital Painting in Photoshop, Characters provides a definitive resource for anyone on the path to becoming a digital character arist.

Jess Serjent-Tipping Deputy Editor, 3dtotal Publishing









# **Getting started**

Find out how to successfully set up your workspace and functions in Photoshop.

Learning how to use Photoshop for character design can be daunting. To get you setup and ready to start painting. Benita Whickler will guide you through the features. Loots, and useful functions that will become a staple in your workflow. In this section Benita will give a breakdown on setting up your canvas and rayers ready for painting, overcoming a blank canvas creating your own brush library, and defining your color palette, all of which will provide a solid foundation for the tutorials to come!

# Setting up your canvas

# How to prepare your workspace to start painting characters

by Benita Winckler



In this introductory chapter we will look at Photoshop CC and how to use it for character design. If you are a traditional artist (beginner-level or with some experience), but you have never really worked with the software before perfect! You are in the right place.

Before we begin, let me say right away Photoshop is a massive program On first sight it can be a real beast (although a nice one). Mastering all of its powerful features up to the very last button will not happen overnight. We are in here for results though right?

We'll start with a character that has already been developed and use it as an example to set up our document for the actual painting process. The next steps will give you a solid overview and foundation for the tutorials that will follow in this book. Here is what you'll need

basic knowledge of drawing traditionally

 Photoshop CC - If you have an older version, say CS5, that will work as well, it's just that the example images here might look a bit different for you

a good graphics tablet, preferably one with a high range of pressure sensitivity but for now simply use what you have a bit of creative madness (very useful!)

You will learn how to

set up your canvas

set up your layers for painting

create your own brush library

define your color palette



A The splash screen of Photoshop CC



▲ This is how the interface of Photoshop will look with the workspace set to default Essentials

# **Step 01**

Who else uses Phitoshop?

One main month in residuability to the wide range if the wide range in a strictly defined with the wide range in a strictly defined with the range in the wide range in the wi

Now why a this costs of the state of the sta

# Step 02

#### Selection of workspace

f you have a fresh installation, you will see the interface default, called Essentials workspace, it offers a basic arrangement of panels that are typically used, male, it is

As discussed. Photoshop has different groups of users so there are different presets for workspaces available. He highly customizable Photoshop also all is you to create your own arrangement and save if for maximum comfort. For us, the



▲ Keep the Essentials workspace so that we all look at the same panels. If needed, select Reset Essentials.

kspace will be sufficient the Adjustments ke that that the Adjustments ke all the Adjus

and ' 's k don't worn, T a 's lide the ht where 's, state 's 's ut settings'

#### Step 03

err to a with there are

the left hand side we have the Tools bar on the right there are the pane column holding the individual panels that you will work with most at collected in fabbed groups. If you click a labil will bring the corresponding panel to the front and activating the corresponding panel to the front and activating the panel of the panel o

On top of the screen is the Menu bar scalled the Application bar at lists above the Options bar which will display options for the currently selected tool change the tool and with the Options bar update accordingly. The mortant conito took out for sithelismenu coni For example if you will be at to close a panel/panel group you will be at the close a panel/panel group you will be at the close a panel/panel group you will be at the close a panel/panel group you will be at the close a panel/panel group you will be at the close a panel/panel group you will be at the close a panel/panel group you will be at the close a panel/panel group you will be at the close a panel/panel group you will be at the close a panel/panel group you will be at the close a panel/panel group you will be at the close at the clos









If you want to open the Brush panel simply go to Window > Brush (image 03b) and the panel will attach its icon to the column as you can see in image 03c. If there is a check mark next to the option it means the panel is aiready open in the panel column tabs. Crick the arrows to minimize and click the panel icon to toggie hide/show "mage 03c). To close the Brush group panel, click Close Tab Group (image 03d).

#### Step 04

Canvas resolution - print or screen?
Depending on your needs, you will either want to create a file for screen purposes or

for printing. At the start of a project you might not always know if you'll need a print version later on or not. Keep in mind that if you create and polish your character in screen resolution (72 dpi), you will not be able to print it in high quality later on (image 04a). High-resolution print documents (300 dpi) however, can be converted into screen or web resolution easily without loss of quality.

▲ Closing the Brush panel/panel group

Let's create a screen-resolution file (I II explain the print preset as well so you can decide on the output resolution you prefer for your artwork). In the top menu bar click File > New then in the dialog box, select

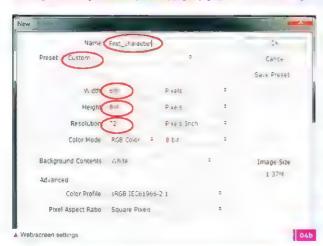
Preset. Web and assign a name (or do so when saving your file). We will create a standing character so we need portrait dimensions. After the default values to 600 pixels for width and 800 pixels for height. The Preset changes to custom indicating custom-sized dimensions. Leave the other entires untouched and click OK (mage 04b).

03d

For print resolution, select Preset International Paper, which gives you an A4sized document at 300 dps (mage 04c). Your new document will appear. Click File > Save. As keep the default file format of PSD. Use the Zoom tool (Z) to navigate (mage 04d).



a Left original size with high resolution for print (300 dpr) light laying to print a screen resolution mage 72 dpr w result in visible pix ation

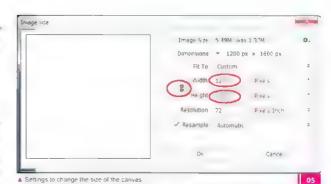


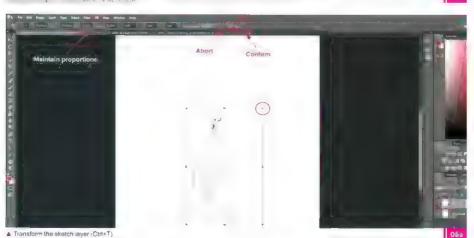




# Step 05

The secret of fire dots is convas size him with the control of the









▲ Cropping or extending your canvas

## Step 06

#### How to copy paster by the total one document to paths

The goal for the next step is to practice how to copy and paste the content of one tocument into another and how to position the mater at on your canvas. We are going to need this technique in the next chapters

Done las open cwas, ( Fe Open 11 is their rate & a ty hitting Ctrl+A. Then copy the content ofth, selection Circh. Activity in a tab (main document) to bring it to the front then hit Ctr+V to paste everything in

Now depending on he sie your Scanned character in ay appear on his T+ TIM PRO 10 OV TO BOTH AT to activate the Transform too and clickdrag the anchor points to scale and position your sketch layer and confirm see m genet Them . . y since

"For a very intuitive way to resize your canvas, simply use the Crop tool You'll love it"

## Step 07

#### Refining canvas dimension and orientation

Right now our canvas is portrait in . Fr w tarter the si and the But what the capita change the dimension later on in the painting process. Maybe voide, So that we need more space to the refl of our character and less space at the bottom? Or maybe we wan't switch dimensions or, letery and turn the partral canvas nin andscape a replay the one hard terseveral imes in the anso with each faire wearing a variety of different clothing

For a very intuitive way to resize your can as size use the Cine so

love it - it can be used for cropping as well da extendin your and sinay of

Let's see how it works. Select the Crop too! (keyboard shortcut is C) mark the preferred area for your canvas with a Marquee selection (the box that appears when you drag the Crop tool over your canvas marking out the area that will be left when you confirm across them gran the anchor. pois and per sely dray them arright of the you are happy with the new dimensions if you confirm by h ling Per in one or you the check mark icon in the top men, bar) the new canvas dimension will be defined.

Pixels collected the Marquee selection will appoint traver of the detect of the heckpos of Deep " in ext Pixes a the top menu bar is checked if no erreu Photoshop will turn your grop into a layer where the cropped pixe's le safe , hidden utside your visible frame. To enlarge the canvas simply drag the anchor points outside the original canvas size and confirm then save your file (Ctrl+S

## Step 08

from Action for a

If you want to work quickly and efficiently you need "Actions". Without Actions it will take 10 times as long to do the simplest things and this can really kill off any creative momentum. We should be happily painting and not search of cking. "Now where was 1 in the Edit menu or in the Layers pane."

The solution for every important task wiregularly need, we will create an Action and assign it a shortcut key. So instead of having to earn who elmenu structure by heart we reduce the hassie 1...

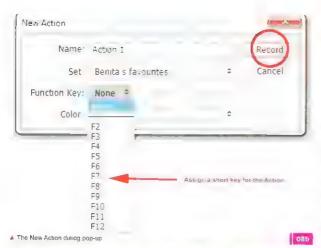
Simple cick of one button. Sounds go 21.

Okay here is the (Whis 1) in wire.



A Record your Actions and collect them in sets or set up keyboard shortcuts to speed up your workflow







have to create those Actions and you will have to learn the buttons you assign to them. But create once enjoy forever!

You can create Actions for your favorite tasks such as Flip Canvas (very useful to check the balance of your composition with the push of a button), Flip Layer Rotate Layer Merge Layer (needed all the time) and Rotate Canvas Assigning them to Function keys (F4, F5, F6, and so on) means they are comfortable to reach

To get some practice liet's create a simple Action for ourselves. You will see that it's fast and easy.

Say we want to create an Action for flipping the canvas. From the top menu bar select Window > Actions and a panel will open up showing a default set of Actions called Default Actions. We could add our new Actions to this default set, but it is more organized to have our own set.

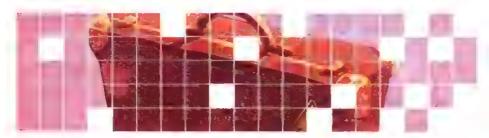
Click the folder icon (see 1 in image 08a) to create a new set (this will hold our new Actions) and name it. Now we are ready to create an Action in our new set. To create the Action click on the smail page con (see 2 in image 08a) or select New Action from the Actions pane, menu. A panel will pop up name the action "Filip canvas hor zontal." Assign a function key that you would I ke to use for this command (you can always after the Action ater) and hit Record (image 08b). The dialog box will close and a little ed dot in the Action panel will indicate that we are recording (image 08c).

Now do exact y the steps that you want to record. For example, from the top menu bar select Edit > Transform > Flip Finanzonta (the image will be flipped). Next hit the stop symbol in the Actions panel to stop recording (image 08c). That's iff If you accidentally recorded some other steps with it you can delete the Action and start again fresh. To delete an Action click the small trash bin icon or do so via the Actions panel menu. To play your new action simply hit the function key you assigned.

# Overcoming a blank canvas

How to generate ideas and take them to the next step

by Benita Winckler



We now have a basic understanding about the workspace and feel comfortable about handling our canvas. We have also gained knowledge about how to copy and paste content between files (we will need this soon)

In this chapter, let's do a bit of time traveling and go right back to the starting point of any character design!

"Some projects will demand a highly polished result, while for other projects a number of rough sketches will be sufficient"

## Step 01

#### What does the client need?

What do we need in the beginning? A concept of we are working as a character designer for a client they will give us the necessary descriptions along with the guide ines for the preferred style of the flustration. We will also be diven accidional information such as whether the design will be used as reference for a 3D model later on. The more information we receive at this stage, the better

Depending on the general purpose of your flustration isome projects will demand a highly potished result, while for other projects a number of rough sketches will be sufficient.



▲ An early concept







Another factor to consider is how to communicate your vision and ideas effectively. Conveying moods and feelings rather than technical ideas for example is a tetter done in color (we will discuss this in after chapters see pages 36 and 74.

The concept shown in this chapter was to create a realistic figure of a time-traveling agent. Think Dr. Who mixed with Mary Poppins, but more modern and a bit crazier a foxy eye-catcher who would get noticed.

## Step 02

## Creating a mood board

You have read the binef and all the information you have so the deas floating around in your mind. Now it's time to fill your head with hispiration. Photoshop is a perfect tool to assist you. Simply capture all your mater a in an extre document and name it mood board. College to begin a magic severathing that his precipitation.

ictals of the surroundings it may provided and supporting accessories and anything that visually describes your idea and helps I immunicate your vision. Look for unusul ombinations and follow your instincts. Sometimes you will get inspiration from unexper provided in the control of the cont

For the example character of a time traveling agent. I collected various images of old sulcases (visually in and applications and example it as executed as a series of the executed as a source for references everyone knows. Google but be careful with copyright. To be safe check out http://freetextures.3dtotal.com/or/www.cgtextures.com/A.so/take/your/own/pictures to build your personal texture and reference library!

Preset Web say 256 x 35 x 3 x 1 1 1 2 241

# ★ PRO TIP

How to use ctipping masks
point mask is a layer that significant in the property of the main layer
below it. Select a tayer containing at
eliment that you want to paint on their
that you want to paint on their
that you peint on it will
tel clipped layer. But Ctrt+Shiff+C
that whatever you peint on it will
tel clipped Clipped layers can be
taked to any number you like. In
it+Shiff+G again and the clipping will
be reveased, showing you the complete
finginal tayer in it.

its of layers. Severt a layer from the nane then use the Transform too. Ctr+T, and the severything nice.

The first the first



# Step 03

in the next step let's get some skelching practice! We will start with a basic drawing to get things going and later look at some useful techniques to help break up the white canvas background.

Select File > New (Preset Web and 1600 × 1200 pixels), and Save the file as "suitcase pad". This will be our new canvas for experimenting on it's good practice to get in the habit of saving often and in numbered versions, this is so that you can go back to your ast version, just in case something goes wrong!

In the workspace drop-down menuse ect Painting so that we have easy access to the Brush panel ( mage 03a). Now instead of sketching directly in the white canvas background live will use a new layer for our line an

In the Layers calette create a new layer. You can do this by either incking on the new layer con or selecting a new layer via the Layers panel men. You can delete a layer by clicking on the trash bin room New layers are transparent, which is indicated by the checkered pattern (image 03b).



To continue with our example topic of a time traveling agent, let's skell a time the act of a suitcase. It is a simple shape nothing challenging so you can fully concentrate on how to use Photoshop. Select the Brush too. B. Select any brush and set it's \$2613, and sent in \$300 pixels (see image 03a), and from the color swatches palette pick black by clicking on it. Now on your new ayer you can start swetching (image 03c).

"To move a layer, grab it in the Layers panel and drag it to its new position"

# Step 04

Settin, id a Tener to Let's go through a simple layer setup for our painting. We have our example sketch on the new rayer with a white backgroanvas. Why did we sketch on a Let wayer? Because we want to be able to use our sketch as a guideline, so that wickan paint on the layers below it easily.

Next create a new layer for painting if needed move its position in the layer stack between the background cany as and the line art layer. To move a layer

Trab 1 in the layers and and the is now position. The transposition The transposition that it is now position. The transposition is itself cannot be moved (indicated by a lock symbol) to lum the background moral normal layer simply double-click and the layers time in the layers to be in the layers.

A note on scanned drawings
When bringing in a scanned drawing,
Photoshop will give us an opaque white
ayer with the sketch on it blocking the
sight of Stantes of additional stantes.

the Ahite areas and to only have the aritial staff line aritis ble you can use the Layer blending mode called Multiply it will do the trick! All white pixels of that layer will appear 100% transparent and the Jark preside staff yielder.

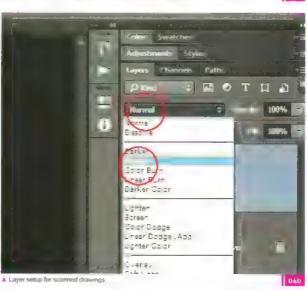
To do this weet the ayer in the Layers panel then in the Layers blending mode menu (the field where I says Normal) select Multiply (see the red in 3), arts in high 4b below).



▲ Skelch of a suitcase right on the new layer. Use the Eraser tool. E. I needed



 The checkered pattern indicates transparency



03c





 The Layer Style menu is wondrous tool that we don't need for now but that you can use to change settings of blending modes in







▲ Some more examples for the bag accessory. Explore and try out various shapes for your character's important term

in the next step we'll look at adding some interesting textures to our basic painting and then well refine the painting furthe

## Step 06

# Working with tentures

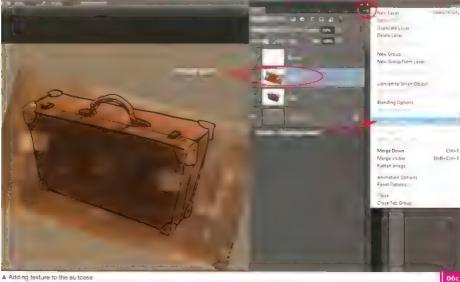
Save a copy of your last document. We neethe ayer set up like before line art layer on top paint ayer then background canvas

Starting with a survey of the killing instead of a white background well start. with a mid-value background. That way it









▲ Adding texture to the su toase

provides us with the ground for working in both lighter and darker values

From the tool menu on the left of the screen select the Paint Bucket tool (shortcut G). In the Layers palette activate the background select a nice brownish gray from the swatches (not too dark not too saturated) and fill the background by clicking on it.

## Pare at esurcase stic

Next activate the paint layer (between the carvas and line art) with a cack in the Layers palette. Select a slightly darker value and paint the basic shape of the suitcase. The result could look like mage 06a.

Define the light source and light direction in our example the light comes from the top-right. Select a lighter brown from the swatches for the areas that will receive I ght ( mage 06b)

#### a refine that a

Next we will break up the CG look by bringing in a texture. As an example we will use a photographic leather texture taken from the free library at http://freetextures.3dtotal.com

#### st, dip no has

Now for the textures we'll create a clipping mask so that our texture wi'l be clipped to the exact boundaries of the painting of our sutcase area. Clipping masks on layers are really he pful whenever you are working with individual elements in a painting.

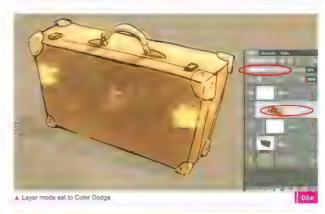
Copy and paste a leather texture on a new layer above the suitcase painting but below the line art. Transform and rotate the layer as needed (Edit > Transform or Ctr(+T). Select the paint, ayer as this is the layer we want to apply the cripping mask to, and then from the Layers panel menuselect Create Clipping Mask (image 06c). Now the texture will only be visible in the boundaries of the suitcase outline the rest will be cupped deleted (image 06d).

# Bleading the texture.

For a smooth effect we'll have to adjust the texture a bit more. First, reduce the



Clipping the texture layer. Note the small indent in the Layers panel indicating that the layer is now clipped to the layer below it.





A Layer mode set to Overlay It looks like a good choice the result is not too light and not loo obtrusive opacity of the texture layer. Now to further blend the texture with our painting, we w I try some of the aver modes. The best effect will depend on the overall ightness or darkness of your texture

Image 06e shows a layer mode with the .exture layer set to Color Dodge (which is a little too bright for our purpose) while mage 06f shows the effect with the layer mode set to Overlay which is just what we are looking for! Experiment with the other layer modes as well (image 06g)

in the next steps you could add a base texture for the floor layer as well. There will be no need for a clipping layer instead, simply copy and paste a texture in so that the new layer les between the background and their itsase. Adjust the opacity for a subtle effect and grase and re paint the floor as you like image lish

Next we want to cover us our neight by painting over 1 T 1's sc add a new layer on top of the one artilayer. To achieve a coherent look filing in some of the colors of your background to your main object and vice versa. Use the Eyedropper tool (I) to do the color-picking or use the Color Picker (image 06h, Tip to yorkly switch between the Brush too. and Exhitrog per tool use the Altikey

Textures are a great way to get a painting going (or to add some final touches However don't rely on them too much bring in your brushwork as we



A selection of layer modes. Try to find a subtle effect for biending your texture



You can select the colors at the Color Picker too as shown A high voltage, sticker texture is added to the suitcase via Color Dodge

# Setting up your brushes

How to organize your brush sets for a faster workflow

by Benita Winckler



If you want to work efficiently, a wellequipped and organized brush set is essential Certain brushes are more suitable for particular tasks than others On the pages that follow, we will discuss how to use the Brush panel and how to save a set of brushes of our own. We will also look at how to create custom brushes for various purposes, such as for painting the skin of our character You can see other uses of custom brushes on pages 154 and 156







▲ Look for the little roots - some brush features can be accessed in more than one place!

"If we want to create a believable character, we need to somehow get rid of that clean computer look. Custom brushes (and textures as well) can really help with this!"

## Step 01

# The challenge of working digitally

Closely related to the brushes topic is one major challenge that digital artists usually need to face. The term "digital" already gives it away it is the danger of creating an artwork that looks too computer generated I we want to create a be levable character we need to somehow get rid of that clean computer look. Custom brushes (and textures as well) can really help with this!

As always, the human eye loves a bit of contrast. So if we try to bring in some little mperfections while painting well be able to better mimic the features of the reaworld around us. As a result our artwork will look more convincing and also way more sensual. Think about putting a hinl. of dust or some scratches on an otherwise pristine surface to break up that CG perfection. The key is to aim for variation

# Step 02

#### Creating a new brush set

Photoshop has a wonderful brush engine However on first sight the panels can ook confusing with the options to after the brushes quite spread out (image 02a). Let's see where we can find the important parts!

Looking at a fresh installation (in Painting mode) you will be presented with the default set of brushes in the Brush Presets pane (made 02b) Photoshop calls the brushes, Brush Presets" because for each brush displayed a number of features have been defined, such as hardness spacing size and Pen Pressure sensitivity

We want to create our own set then alter and create new ones, and importantly change their position in the list, so that we have easy access to the ones that we need most. Create a new brush set by selecting



Save Brushes from the Brush Presets panel menu (image 02c). In the Save dialog box. assign a name for your set and save it in a location that you can remember. Right now the set will hold a copy of the default brushes because we haven't changed anything yet

To get the defaults back, hit Reset Brushes in the panel menu. You can experiment with other brush defaults from the menu too Either Reset or Append (you can choose between these two options in the dialog box once you hit Reset Brushes). The latter will add those brushes to your set

Appending brushes can cause your list to grow quite big so it is good to be able to arrange and delete brushes to make your brush library more manageable Let's see how in the next step



Text Only Small Thumbnail Large Thumbnail Small List Large List

✓ Stroke Thumbnail

Preset Manager...

Reset Brushes... Load Brushes...

Replace Brushes...

Assorted Brushes Basic Brushes Calligraphic Brushes DP Brushes Drop Shadow Brushes Dry Media Brushes Faux Finish Brushes M Brushes Natural Brushes 2 Natural Brushes Round Brushes with Size Special Effect Brushes Square Brushes Thick Heavy Brushes Wet Media Brushes

Close Close Tab Group



▲ Select Save Brushes to create new set | 620

"You can create new brusnes by using the Brusn panel. The new brusn will hold exactly the settings that are currently selected"

## Step 03

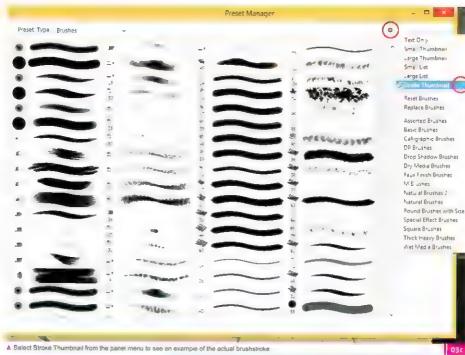
#### Using the Brish ponel

We have saved our brush set now let's explore how to create new brushes and then arrange them for an efficient workflow. You can create new brushes by using the icon on the Brush paner (mage 03a). The new brush will hid devactly the settings that are currently selected. Assign a name and hit OK. The new brush will be added to the list (sexoil down to see your new brush) in the following chapter we will explore the Brush pane settings and custom brushes in more detail. For now though, just try creating a new brush by hitting the icon as shown in image 03a.

Now let's discuss how we can rearrange and delete brushes. We will use the Preset Manager.







# "Don't forget to save your altered brush set once you have made changes to it it is easy to forget!"

To rearrange the brushes, simply grab them and put them to their new position. Explore various brushes to find your own personal favorites and then arrange them in a fashion that fee's most comfortable to you. If you want to delete (or rename) a certain brush from your set right-click and select Delete (or Rename) Brush (see image 03b). To see the actual brushstroke of our brushes select Stroke Thumbhail (see image 03c).

Don't forget to save your altered brush set once you have made changes to it (see step 02) – it is easy to forget! Also save your set if you want to reset your brushes or want to explore the other interesting defaults such as Dry Med a or Calligraphic brushes



A Control the level of opacity of your brush individually via the Brush menu.



A You can effer the hardness of the basic brushes via the Brush menu. An oval brush bp can be useful for control

"You'll need a brush that assists you in making bold statements. No fluff or fuzziness but a hard edge"

## Step 04

The secret of the hard edged brush Let me highlight one of the basic brushes that is particularly useful for character design. It is the solid hard-edged brush. Why is this one useful? Because in the early design phases you I need a brush that assists you in making bold statements. No fluff or fuzziness but a hard edge.

The trick is that it will force you to focus on the basic shape of your character design which is highly important, because shapes are among the first things we notice and it is vitar to get them right (see the chapter on form and anatomy in the next section).

Set Shape Dynamics to Pen Pressure to achieve a nice brushstroke (image 04a) hard-edged brushes are idea.





▲ Explore the silhouettes of your character. Use a hard edged brush to find out which shapes are needed to tell your story

to explore the silhouettes of your character des gn (image ( 3))

Good's lhouettes are easy to read and his will be a first y has on your audience and give you viewer some visualic ues about what to expect from your character. To achieve this you don't need thousands of tiny Ittle details. Keep it simple ireduce and enhance. Which features are needed to tell your story? Which can be omitted?

# Step 05

Brushes suitable for in a new con-When painting characters, eventually at some point the topic of "how to paint skin... # I crop up There is no secret formula for how to paint skin however some brushes will be better suited for the task than others

Try to start with a hard-edge 1 brush leither pressure sensitive or non-sensitive rimage 15a Once thes a examile giting are defined you can switch over to some speckled brushes (see image into no the next page) and finally you can go over the painting with a soft-edged brush to smooth out some of the harsh edges



▲ Always use Pressure for opacity. When this is off, the Brush Preset controls the pressure

33







Define Brush Frese dite PEF Pia pt asign D file Preference terda - voltigma con 06: A The process of how to create a custom brush

Skin is soft but the underlying structure. s not. It is a common mistake to start painting the skin with a soft brush, only to end up with a blurry shapeless mess Keep in mind that the skin is just the top layer of something that has volume and form A ways start with the idea tha you are painting an object in 3D space. If you notice towards the end that your painting has iost its life. I could be due to the fact that you overdid it with the soft brush. Get back n there and bring in some brushstrokes. add texture, and do everything to avoid the clean CG look that we talked about earlier

Also remember that a character's impact on the viewer will not depend on how many freckles we paint on the skin - don't over use custom brushes or rely on them as a foundation for your character. If you absolutely need to paint freckles, as your character close-up demands it you can use a special brush for it (image 05c)



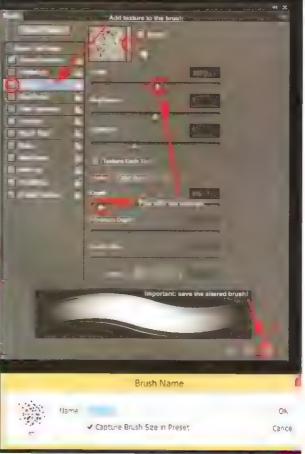
"Using a variety of brishes will lead to greater variation in our brish sharr and it will help your ocommunicate the material you are painting better

#### Step 06

Using a variety of brushes will lead to greater variation in our brushwork and it will help you to communicate the material you are painting better. Let's go over the process of how to create your own custom brushes, so that you can make your own brushes for special tasks. As an example we'll create a specified brush suitable for (but not limited to) painting hair.

Create a new document (set to Web) and set its size to 100 × 100, keeping the white background. This will be the basis of our brush. We will now paint what will be the lip of our brush with black.

Everything white will be transparent Select any brush with a small size of 1-3 pixe-s. Now put down some dots onto



A To get a more natural look and to bring in some variety, you can add texture to your brush

the canvas. From the Edit menu select Define Brush Preset and in the pop-up assign a name confirm with OK (image 06a). The brush will now show up in the Brush Presets list (image 06b).

Let's refine its settings so that we can use it effectively. As discussed earlier, it is important to get variety into your brushwork to achieve a vivid look. The texture setting is especially interesting here, as it allows you to add textures and variety to your.

brush (image 06c) If you want to paint for or grass mater als, you can create a brush tip consisting of small strokes instead of dots and then combine it with Scattering (above Texture in the Brush Presets panel) You can also enhance the effect by using the Shape Dynamics. Size Jitter/Angle Litter

There are many possibilities so I highly recommended that you try out the various brush settings. Have fun – and don't forget to save!

# Setting up your color swatches

How to work with complementary colors, use the Color Picker, and convey moods

by Benita Winckler



In addition to technical concerns (such as how to work with complementary colors or how to set up color swatches), we also need to know about the psychological and physical effects that colors can have on us (consciously or unconsciously) What is the response we want from our viewer? Which colors convey a certain mood most effectively? We need to ensure that we communicate the right things

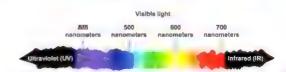
# Step 01

Some colors and their effects Image 01a shows an illustration of the ht Let's break

- I down to get a guick overview
- Red sleve catching exciting and demands ttention it is a very active color. Hot ggressive and sensual. Think of glowing fire brood fruits or poisonous fungus
- · Orange is an attention-grabber it's not as demanding as red but sistilivery warm and can be associated with youthfulness fun ambition and high energy

A draws attention and is associated vith opt mism, happiness, sunlight, and warmth, But it is also used as a warning color by some animals, such as wasps

 nd d stant you associate . " he sky air and water it can be



A Color spectrum of visible light, warm red at one end, cool blue/violet at the other

01a

- calming or sad think of "feeling blue or being "ice-cold" (image 01b)
- · Green is associated with nature health, and growth. It has a calming and relaxing effect (image 01c)
- Violet is a combination of two very different colors cool blue and flery red. It can

be linked with solitariness, royally, and spirituality. It can also be associated with mythical topics and otherworld iness

We will explore the many effects and uses of different colors and color combinations further in the "Storyte ling and moods' chapter of this book (see pages 74 and 76-78)



▲ The blue color scheme adds a cold atmosphere to the image



A The character is more approachable due to the warm golden green tones



some practice

Using the HUD Color Picker There are several options you can use to select your colors in Photoshop One feature is the HUD Color Picker Let's set up this feature in the top menu bar select the Edit menu. and choose Preferences > General to open the Preferences paner. We want to look at the Hue Wheel, so select it in the drop-down menu (see mage 02a

above) To use the Color Picker feature select the Brush tool (B) go to your canvas and practice the following

All+click the canvas to color-pick the normal way (image 02b)

· Next try holding down Alt+click while hovering over the canvas. You will get the option to after your brush size by moving/hovering to the left/right (image

02c) If you move/hover up and down you can change your brushes hardness

Hold down A I+Shift and click, the canvas will set a color sampler on that spot. To get rid of it again, simply click it another time with that key combination held down and I will be removed, see image 02d)







#### \*One useful technique for creating color swatches from a photographic referen e image is to use the Morale Filter"

If instead of clicking the canvas directly you hover and click the color wheel will open (see image 02e). Keep ali the keys held down (also on your pen) and you can move around the wheel to select a new color while being able to see the coror's position on the color wheel If you need to find a color that has the greatest contrast to another chosen color, have a look at its opposite position on the wheel

#### Step 03

Color swatches are useful fivor report to create your character within a certain givecolor scheme. Maybe your client has already given you a painted mage with some colors for reference and then you can color-pick from that r mage (13a). Or maybe you were given some photographic references to create something that will have the same ook color-wise. In this case it can be a bit more difficult to do the color-picking

One, sel, echaig, a for reating color swalches from a photograph, reference image is to use the Mosaic Fater turning n i philitography into a mosa-

Open a beautifully colored photograph to use as a hase. We want to cury the background agente have something to go back to so select A Ctr+A copy (Ctr+C and paste Ctrt+V). The new layer will be used for the filter Clink on the ayer to activate 1 and from the Filter menu in the tip menu transelect Pixe ate M say see may to Depending or the size off caches you will get a good variety if the major important colors

Eximinently to the size to get a suitable is I that where it can readly see the " in I was abre south to k fryen may by xt; your parsion the . . . . . . . alette in their con con the the on a new iver of your main character document



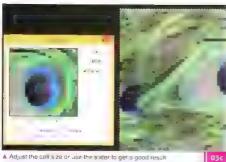
▲ Brush selected and Alt+shift+hoverclicking it will open the HJD color whee



▲ To base your character on a given color scheme is mply pick the colors directly from that image.



▲ Create a mosaic out of a given reference image to achieve a basis for a possible color scheme. Play with the settings for the block size





Adjust the cell's ze or use the silder to get a good result

▲ P ay with the numbers and watch the image change accordingly



▲ Click on the empty stots to open the Color Picker and select a new color Where is our color table file?

Important change this to Color Table it ACT!

A To notate our new Color Table make suin to set the file type to Color Table ACT.

Due to the reduction of the colors you might lose some pretty high lights and dark values (refer to image 03a). To add them to your color swatches hand-pick them dire: "It from the original photograph with the Eyedropper too. (1) and paint them on your paiette.

#### Step 04

Color swatches from index mode

indexed Color mode uses a color look up table to create an image. It is a method for creating 8-bit 256-color flies. It is useful for saving disk space and in ating web-based images.

Open your reference photo. To keep it simple take an image of JPEG or PSD format. We will use peacock feathers adding with this image in a second, so make sure you save it under a new name so you can safely play with it.

What we want to do is extract a number of beautiful key colors, while omitting the

superfluous ones. But this time we want to create a set of Photoshop color swatches from the mage Color swatches can then be loaded saved or even exported to other programs such as Illustrator.

From the top menu bar select image > Mode > Indexed Color. In the pop-up menu enter a small value and watch how the image changes accordingly (set Dilher to None to ach eve clear color shapes instead of dol' transitions) and hill OK timage 04a. To get ir swatches from the indexed mage self-image > Mode > Color Table. In the pop-up menu you can see the sylvassign a name and hill OK (image 1).

Let's open our new Color Table (ima



To add more colors click the icon as shown above

either click Load Swatches to add the new swatches to the existing ones, image 04d) or Replace Swatches to replace the existing on with the new set. Note that you should make sure that in the populpinu you change the file type to Color Table .ACT, so that your new file will be displayed. Select your file and hit Load.



▲ B ack and-white sketch it is useful to focus on the lighting first



blue-turquoise yellows and chartreuse green



▲ Adding the dominating color The color layer is above the sketch layer toning everything

"Another really fun technique you can use is to invert the colors of your current layer by hitting Ctrl+I to give a

A Repaint the colors of some areas using a new layer with the biending mode set to Color

Step 05 Coloring the character



Step 06



hange the Hors of an existing layer ter the colors for the whole image use the command Ctrl+U. This will bring. . . . ituration dialog box rimage 6b. You can play with the settings by hand, " and evel some fresh

ir possible color schemes

eatly fun technique you can use blors of your current layer Ctrl+I to give a photographic + + + iffect if only used on one a in your image it will give sx " um coror contrast

> - vs the final character so you e the effect of the final colors chosen









A children's drawing of the character



# Establishing your character

Discover key art theory techniques and top tips to present compelling and recognizable character designs.

You now have the knowledge to set up your workspace and tools but how do you go about designing a convincing character? In this section Benita Winckler will present some notably recognized theories linked to depicting a character Starting with form and anatomy. Benita will then take you through character types composition storytelling and moods using images to demonstrate definitions and discuss the clues and tools behind communicating an effective character creation.

## Form and anatomy

## How to portray your character through the use of body types and gestures

by Benita Winckler



The human interest in portraying characters has a long history, in some ways making character design an ancient art form. Nowadays artists have the mighty Photoshop available, but the basic problems of how to present a character in the most compelling and recognizable way still remain. To make a character. design work, you need to consider many different aspects, including form shape, posture, and facial expression

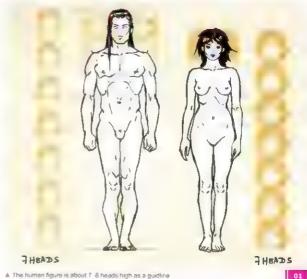
It's also important to understand that it all starts in the mind of our audience The more we know about the clues and magic tools behind the art of communication, the more powerful and effective our creation will be

A character consists of much more than tust his or her high-tech armor. If we can manage to scratch at the surface and bring out what is behind the fabric, metal, or painted mermaid scales, then we can show our viewer a real "person" and they will be able to make the connection.

#### Step 01

#### Form and anatomy

Form is one of the first things we perceive when looking at a character. Based on the appearance the anatomy and the pose we start to make assumptions on what we can expect from the character in front



▲ The human figure is about 7.8 heads high as a guidline

of us, for example are they a friend or a

When taking in the available information about the world around us, our brain starts to generalize, we run internal scripts and then certain responses are inggered. This happens lightening fast and often without our conscious awareness. The result can

be that we are afraid of someone or that

Looking at a baby for instance will help ess, while looking at an image of a powerful attacker will trugger fee ings of fear awe or antipathy. This all happens y v P y P y Y

with these assumptions to communicate

that the

with greatieth iv

#### Step 02

#### Shapes and personality

Viving the second secon

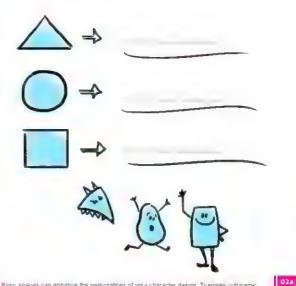
Reduced to a basic shape this can give you

\$1.00 (0.4)

An har so the second of the se

THE STATE OF THE THE STATE OF T

#### Using shapes for character design



▲ Basic shapes can enhance the personalities of your character design. Triangles — dynamic sharp stangerous Circles—calm friendly soft Squares = static strong.





 Combine basic shapes for new character ideas, there is round head shape, friend yr plus some spikey friangles i possible danger, creates a rascally beasting. 02b

## \* PRO TIP

Playing with these shape stereotype. and "breaking me rules" can add a loll of freshness and interest What about creating a femining-looking male viliain with long hair and darii eyelashes? Or a male-looking, strong heroine? Try angles on a females.

#### Step 03

Differences in female/male portraits So what is it that makes a male face look "male" and a female face look "female"?

If you take a look at image 03a, the generic male has hard mes angularity features as if chiseled from a rock, a strong jawline and a square chin. The female portrait shows delicate rounded features, overall soft curves, and no harsh angles.

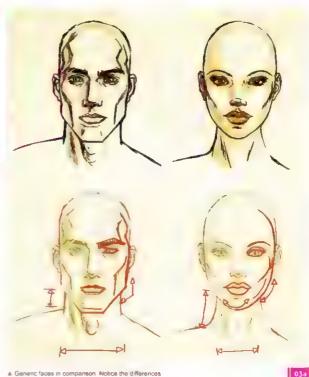
To produce a male-looking portrait, draw the head shape a bit squarer and more angular make the neck shorter and th oxer and add the Adam's apple

For a female head, draw the knes rounded with less sharp corners. Her neck will be longer and thinner with soft curves instead of straight lines. The skin tones can be darker for the male indicating rough features and a hint of facial hair for the female paint the skin light and sliky

For your female portraits, paint the eyebrows in a fine soft curve. You can see the effect of masculine bushy eyebrows on a female portrait in image 03b

For females paint the eyes more open and bigger than the males. To enhance the female touch you can add eyelashes and eye makeup. For females paint the nose delicate with finer features

Female lips lend to be fuller, however, males can be equipped with beautiful. ips and still look masculine



A Generic faces in companson. Notice the differences

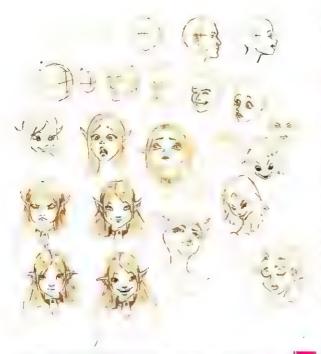
#### Step 04

Facial expression and mood Unless our character is a very good actor poker player (or has had lots of Botox injections that prevent the facial muscles from working), we will be able to tell his or her emotional state from the facial expression and the look in their eyes (image 04) Are the eyebrows raised or furrowed? Are the eyes wide open or droopy half awake? Is the mouth relaxed? Smiling?

There is a great variety of emotions positive and negative, and our facial features will display them accordingly happiness pleasure, interest, disgust, anger contempt fear and surpose just to name a few However it will help a lot if you don't just stick to these basics instead try to invent some sort of context for your character a story a



▲ Thick, bushy eyebrows for females will 03b create a masculine effect



▲ Depending on the intensity of the emotion, the whole face will be affected, siretched and twisted by the expression.

specials tuation that he or she is confronted with so that you can tame up with better fitting expressions with finer nuances.

"A look can be challenging or inviting; it can signal interest, involvement and warmth, fear, sadness; or it can seem brutally cold and intimidating"

#### Step 05

Eye contact

How duyou give your character that special ook" which really brings them to life?

Just as in the old saying "the eyes are the window to the soul" you can use the eyes of your character to communicate how they feel and what they are thinking. A look can be challenging or inviting it can signal interest involvement and warmth fear sadness or the can seem brutally cold and intimidating.

If you take a look at images 05a and 05b below you can also see that a portrait of a character that is directly looking into the camera can have an intense effect on the viewer because of the connection that will be established it addresses and involves the viewer directly. This can be a useful trick so keep it in mind!



▲ Characters who look directly into the camera can create an instant connection with the viewer. Use this little 'trick' to engage the viewer.



A Hiding parts of the face behind a mask will obscure the expression of its owner causing the viewer to guess what lies behind t









▲ Cultural stereotyping

#### Body types (somatotyping)

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▲ Some generic female body types

07a

#### ▲ More categories for female body types

Certain physiques carry certain cultura stereotypes. For example, mesomorphs (muscular) are perceived as popular and hardworking whereas endomorphs (fat are seen as being lazy and slow. Ec amorphs thony, thin) are stereotyped as being intelligent but fearful with a strong love of long distance sports, such as marathons.

Presumptions also include the idea that endomorphs are sociable and easy-going mesomorphs are adventurous bold competitive aggressive and energetic while ectomorphs are introverted inhibited at a size in the state of your character can convey what type of person they are

#### Step 07

#### Categories for body shapes

Study the differences in form and shap in our fet ow human beings. By closely examining the people around us, we develop

In general you will want your femalic characters to appear more delicate that their male counterparts. Think soft curves instead of hard angles. Females tend to have higher levels of fat to be stored in their bicompared to me. This will also affect the body fat distribution in females the buttricks hips and thighs will be more rounded than those of males, males will be more musicular.

and 07b give some examples fulferent body shapes that can be used to categorize the female body. Obviously these is no fixed rule and there are wide ranges of actual sizes within each shape. With a deal of basic shapes and variations you can create pretty much any type of charactivous want. Don't draw all your women (and

men) the same thought it happens often that v= dapt to one way of doing things and then we get  $az_v=$ nd repeat what we have learned over and over again. Explore the differences and try some variations

#### Step 08

#### the cell and movement

When drawing a character. It is important to understand that the human form in essence is a delicate balancing act. With every step we set the masse of our body into motion. This can look graceful or not. The various ways in which people walk is a great source of inspiration for character design.

Distriction on the energy a character puts into the movement it can be a presentation of confidence the head and body held upright challenging the world or if the energy is missing. It can be also open maneuver with the character defeated and stouching along with drooped shoulders and hanging arms. These qualities will show in their silhouettes (see image 08).

Explore the effects of different poses by using silhouette drawings. The shape alone can communicate a lot about the inner state and mood of a character.

### RPRO TIP

## Silhouettes

Sithouetes are a great tool to explore the effect of a pose, to check if I mean works. Also, they act assumed to the pose and couldn't way to focus on shapes and designs that make a strong impact on the viewer. A good cheracter will be easily recognizable as a simoustic.

#### Curves, rhythm, and motion

Since character design has a lot to do with producing an emotional response from the viewer the more life-like a design, the easier it will be to connect with our audience. We need to capture the energy and attitude of an imagined, "living" being in a drawing we can work with the lines and curves to teil our story and give a sense of movement and excitement to our creation

In image 09 you can see the effect that symmetry has on a pose. It will look stiff dead, and a little bonng. But, if our model is presented in an asymmetric pose, as seen on the right side, the flowing curves will change that impression instantly

#### Step 10

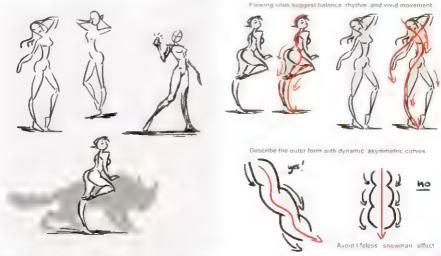
#### Body language and gesture drawings

Non-verbal communication plays an important role in human social interaction Even if we don't speak, we still communicate via our body language. According to some studies about the communication of emotions by Professor Albert Mehrabian if a person sits in front of us, talking about their feelings, we will react to 55% to body



A Note the effect of the asymmetric pose. The flowing curves give a sense of motion and balance. to the pose. Our skeleton comes to life!





▲ Initial gesture drawings. The redilines sustrate the rhythmic flow. Use asymmetric curves to indicate movement, direction, and balance!



A Expressive hand poses will enhance the storytelling aspect of your character



& The hand holding the delicate scarf of the dress adds to the seductive pose of the character

### "Capturing some spark of life in a drawing or painting is where the real magic appears"

anguage 38% to tone of voice and only 7% to spoken words. That means that while we are watching the person in front of us we will subconsciously "read" his or her real feelings and attitudes no matter what they say. As artists then we can use the effects of body, anguage to communicate our story.

To find a nice. I.vely pose for the character it is helpful to start with some quick gesture drawings (image 10). These are simple drawings that capture the essence of a pose is the character happy or sad? Aggressive or passive? These basic qualities should be apparent in the initial lines ready to be taken further in design.

Capturing some spark of afe in a drawing or painting is where the real magic appears. The more we render and rework an artwork, the more we lend to kill this off. Make sure you keep the Innes vivid and loose right from the beginning so that there will be some energy left shimmening through in the final. Fustration

## Step 11

Expressive hand gestures

Another way to enhance the look of

your character is to pay attention to the expression of the hands. We use our hands when communicating. Some of us do it more than others. There are subtle poses and wildly exaugerated ones. Hands can be used to point at things, they can be clawed in anger or opened in friendship, they can be inviting, seducing demanding or defending.

Sometimes simply looking at a character's hand pose can offer sufficient information to understand what kind of character we have in front of us. There are so many cues we can get from analyzing the way people hold their hands if someone is biting their nails for example, the person appears anxious and unsettled. Hand poses can therefore be used with great effect to tell your story (see images 11a and 11b).



To make the audience feel uncomfortable add alien characteristics that prevent an emotional connection

"As human beings we have the ability to be empathic and the more similar the other being is to us, the easier it wil, be"

#### Step 12

I I his chapter with some thoughts in hybrids or alien characters. How far can we go with our creation? How many human characters tics can we replace the about all ence As human beings we have the about to be empathic and the more similar the ther being sito us the easier that be

The more alien our counterpart appears
the more suspicious we are see mage

1.4 and so when 1 consty to an emotional
polar the meet similar by to connect see
mage 12b). We can relate to hybrids as
they are fully capable of emoting as human

1. take a look at the one in image
1. the minimal see what you can achieve!



▲ This guy seems to be rather unlikable but has relatable human characteristics



## **Character types**

## What makes different types of characters recognizable?

by Benita Winckler



We tend to perceive the world around us with a lot of biases; stereotypes do exist. If they are overdone in an artwork it can look kitsch and our reaction will be either boredom, or amusement if the presentation is really over the top and intelligently done so on purpose

As character designers we need to be aware of known character types and the associations that go along with them. The big task here is to create interest and avoid generalization (where the result is boredom), while at the same time showing our audience something that they can relate to

To do so, we need to open a door into the audience's past experience. We need to find something that will connect with them on a deeper level. If you are able to talk to your audience about something that is meaningful to them, which taps right into their feelings and their emotions, then and only then will you get a response for your artistic endeavors.

If you want to be understood, be original but don't stray too far from a certain type If the character is evil, make them look evil. Let's talk about the various character types and how we can use visual key elements to make sure that our character will be perceived as we want it



▲ Character line-up with some standard clické character types amongst them



▲ Herome character Notice the strong stance and the commanding gesture

#### Heroes and heroines

The main character for most stories is the hero for herome) or the gold q, y for grill. This doesn thave to be a medamiscular superstar elema winner half jod or toy modet be the character does has to have left an features and characteristics. The stories has to have left and that testings that we make heromapping above as a heroin any situation.

Let's analyze what makes a character appear to be a hero. In the previous chapter we lacked briefly about the effect that shapes can have in character design thoughs for active dangerous features squares for reliability and circles for feed ness. This is 200 way to incorporate an idea. And their approach is to wink with lack to like the that when seen together will convex certain that when seen together will convex certain that when seen together will convex certain that the seen together will convex certain the strong uprophility to the control of the white helpful that the seen are a strong uprophility of the seen are a strong uprophility of the seen and commanding hand gesture. We appoint can its stid greater that the seen together the seen to the seen and the seen are seen as the seen are seen as the seen are seen as the seen as t

the uniform suggest power and the is placed the uniform suggest power and influence. Blend hair looks good on angelic characters but can be used on evil ones as well if accompanied with supporting elements. Best sold in the strong characters to the suggest of the suggest wealth and energy As a fellow make your heroes look strong with a strong expression on their face (ma.). The is another example of the suggest wealth and energy As a fellow make your heroes look strong with a strong expression on their face (ma.).

#### Step 02

Villains and evil characters

These are the fun ones. Although haracters there is nothing holding your

## PRO TIP

#### Add some contrast

To make the cheracter really stand aways aim for contrast. Try combining the hard (or even nasty) features will something rice, cheming, and beautiful



▲ Another example of a hero-ne character

In companson to the good quys there is

i example of a volume blvm warnor. I have

to give his already pointy face an even pointier and sharp-edged look. Here the real attitude of the character is mainly shown in the expression of his face. The long hair



A villain Fhun watner



01b

outline with lots of spinter like triangles

Societ No. a. offer dynamic like triangle

At this point you may wonder what it is with at this cause of standard are it is my oftan to remember the importance of the little thinos if you do at image 02b it shows the same character but with softer facial features — holice how the evil aspects are gone.



A tered sightly and he looks friendly













A Some goofy/funny characters produced in a stylized comic style

how a bad dur would behave. You could the part in your mind timagine the part in your mind. It alls such a such a



"If you need to paint a powerful femme fatale for your project, first think about her story. What is your character's mission?"

#### Step 03

Fig. nm, fit, into n ps

1. fine the first teners

1. fine the performance

Bond moves think mystery seduction

1. deadly situations!

the analyzing this character type we are that the major ingredients are that

Idade for your project first Ihink about her story. What is your characterism section is the project first Ihink about her story. What is your characterism section is the project first f

Classic pin ups, in comparison generally look more innocent and playful Here the lase is simple paint a sexy playful female for the last interpretable in the last interpretable interpretable in the last interpretable interpretab

#### The goofy/funny character

Thinking about the air C 4, an kar an imper of characters in the same m twhen, how tits yes hara er

Image 14 shows an x mr. tw h, 3,1 , maled ( a ( T ) + THE WORKY THEY SHE ENGLY WE BE the ey onk 1 year, he talls the table a analyze a feature that near the her ar part stary got,

First, note the pose. His stance is quite rooked and stooper Ha a a a a smig, inject it, ald of, may the open belt of his racket LAR TATE SSTREET FORSE 1 dzy Ha er atvey y t ?

atoms the open as Ft et l'ut y = t l 1 tt. x x pre St c. [. a c. ft la , , . . . 1 Mass testering



costume design is easily recognizable in this

T. mer th the faces are facet in salsh sign frant + sta 1 e , b) The background V + 4 8 8 1 1 1 1 1 / 1 14 ocation (1 which till i et vi hare sinn electricity rise to a infos

\* 1 " - 1 - kground in mage 04a ay and y story of all topys take I season Through he fig. first ackground we have s a set flaste or William ay netter rate table it is The surrectional , the state of the state of the state of

"Feel free to overdo the physiques strong fighting types can do with a bit of unnatural muscle mass"

#### Step 05

#### The dark warmon

The extinharacter upe in the ist sithe Jark or I had at a complete sh 1. Carmore Anontana fighting in armore tican he helpfolto analyze tief a nia ty fine equipment before start have the design Most people will probably term intre flasword's made for wo hands or for the hand or file are singenous intochart Fora warrer hard ter however there siex ra ff it is eded to make sure the jir nor and weaponry a elections, the white still her jun to a Ak tee free to yerd) the thyangles string to this types car thing the terminative in sciences





Minimates to Let's talk about magic. When dealing with magic and a certain amount of visual fireworks have to be expected. After they have supernatural power and know how to bend and manipulate reality. We ill now stop the theory and open Photoshop to create some freworks for curselves.

mage 06a shows a magician character. As you can see, there is no pointed hat, flowing robe or ong wand instead it have played with a mixed effect of exotic costume, hand gesture, and Light to suggest the military and Light to suggest the military of the cost of spell-casting. To create light effects I usually use the following workflow.





▲ The costume hints at the profession. Symmetry leads the eye ic the magical hand gesture











- Select a new layer to paint on and name it imagic light. With a textured brush paint some rough strokes. Choose middly colors for this no extremes (image 06b).
- From the Layer mode menuin the Layers palette select Color Dodge. This mode can cause some interesting effects (image 06c).
- With the "magical ight" ayer still selected hit Ctrl+U to open the Hue. Saturation dialog box. After Saturation and Lightness see mage 06d.
- Carefully use the Smudge tool to soften your brushstrokes. Note image 06e shows extreme smudging in order to better. Lustrate the effect.



▲ Elite paladin marked from endless fights | 07a



#### Knights and paladins

Another characte 1/pis the knight or paladin characti. 1 , ....... SIT ALL TAS IN THE WATER C PLACE TO VILLE has been so it bout the we print your armor applies in this step as were if the at these categor zale os or got frexitor

Maybe a paladin will take better carr his appearance than a warnor . . . , . . . . in the high ands. However fire in his spent the last few in this on the road steeping in muddy tents that is a second of book different Again think about the state of the state o story will have an influence on the line Has the sword of your knight character BEETER CARE LAND impor marked from end / ss t att s = 1. 07a)? Is he a spot ess show and a first while horse composing, ... Considerations such as so words the believability of any artwork you freme

After painting a type of kings that we speak sagroup or note than the r is rettlefield it can be heipful to give the group a visual element that is easily Mit air value tare O'h shias i example of a group of knights, all with red elements visible. The rounded design of the helmets also gives a visual clue that thes are nembers of the same side arm,

#### Step 08

#### Skeleton kings and other royals

Skeletons don't offer that many pass bytes for fac acexpressions, with alt 1 startis



A eas of interest are this face and swo it is

free to be a second - of to dian and a second Althrone adds a lot to the idea that we are dealing with a king here. The crown tells the audience about his status

When painting people of royalty one way 11 12 12 12 1 contrat or letter , c. 



## Step 09

#### Children and young characters

The perfect heroes for adventure stories When painting young characters look a The facial features will be softer and n rounded. A child's head is bigger in relation to his body than that of a fully grown adult. et a seven and er recon

Fire a cherika, that a harete

N v . r





3 HEADS

▲ How an we'te if the character is a child? The secret lies in the relation of head size to body





A young orphan bny. His clothes don't fill and the huge hat further enhances his childrike appearance a Sauerlander audio: Argon Verlag

## Composition and positioning

### Techniques and rules to enhance your designs

by Benita Winckler

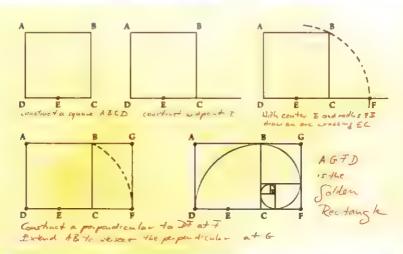


If you want to enhance the visual impact of your design, you need to decide on a good position for your character within your composition Certain compositions will work better for a given task than others.

In this chapter we will look at the different qualities of various compositions. We will look at rules, such as the golden ratio and the rule of thirds, and will discuss how the application of them can improve the appearance of an image. We will also examine some of Photoshop's tools that make composing an image much easier.

Note that composition rules do apply for character portraits. We will therefore look at the subject of the framing of a portrait. We will explore possible pitfalls in composing portraits and learn how to avoid them.

Composition not only works on a macro level (big shapes) but on a micro level as well (inner coherence). To achieve a harmonious result, a composition needs to work on all levels. The trick is to not paint parts in Isolation, but instead relate them to other parts. Playing with the macro and micro in your composition is a lot of fun; it will help lead the eye of the viewer around the image, Ideally directing the speed and flow of their attention.



An approximate of the golden spiral, a logarithmic spiral whose growth factor is the golden ratio or phi



▲ An example of a design that can be described with the golden spire

11 . . . . .

Without mathematics to a six and

Fr niPhi - 1 h y ring

The human instruct for the dietectic manifold appreciation of beauty is one of life's great mysteries. Sure beauty ies in the restrict to the holder that the read purportions that are sometimes, excepted a local than it are sometimes and peasing. The first discovery of the golden ratio dates back as far as some hundred years BC. Since their numerous mathematic ansland artists also have studied and worked with the divine proportion.

Examples of creatives who have worked with the golden ratio include the farmous architecture. Corbus er with proportioned his work approximately to this ratio. Another example, is beginned as vincount who used the golden rectangle extensively in his plantage.

You can construct the golden proportion which is the beautiful number of 1,6180,339887 represented by the Greek letter Philip to owing image 11a. As you can see the golden spiral is derived from the golden ratio and sian organic way to ead the eye of your viewer around vicin



A Another example of the golden spiral. Here the background elements are framing the character in a spirally flow.

composition. It draws the evento where you want. In tonus, in the please than sign the intersect an or for great impact in the center of the spiral see majes, it bignd (it).

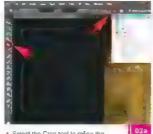
A though numbers are a fast nating lopic tells not look further at the math here but rather inspect the possibilities of its use now haracter design compositions.

#### Photoshop tools for composition

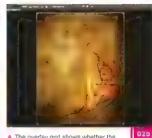
When starting a new creation we norm work instinctively without measuring the relation of elements with a ruler. Often it is not until the mage is done that we sudden . notice that we have followed an inner idea of a harmor « us arrangement that can now be made visible by overlaying a diagram, such as the golden spiral. This is an important point when laying out an initial design don't restrict yourse I to rigid guidelines, but instead trust your instincts. Still, it is good to know the theory behind composition so you can improve your paintings if necessary

Before we practice how to generate fresh composition ideas, let's look at a useful Phot shop tool that will come in hair, Crop tool If you want to check if the framing works or if it can be optimized simply --the Crop too to shift the important elements to the sweet spots of your composition (for example, where the composition lines intersect and create a focal point,

Open a sketch Frei het aller en the Crop tool (shortcut C). The Crop menhas different options, select Golden Ratio for example (image 02a). With the Criss too selected click into the image. You will get an overlay dividing your image into golden proportions, mage 02b). Note that ntersections are a good place for . center of interest. Pull the anchor point-( mage 02c | shift areas of your image to these intersections and improve the composition. Hit Enter to confirm then you can continue the work on your design



▲ Select the Crop tool to refine the composition and framing of the character



A The overlay grid shows whether the design is working

03a



Anchor points are pulled to re-frame the canvas



▲ Left balanced middle and right tension because of the contrasting sizes.



▲ Two ideas for dividing the canvas horizontally and vertically



64







This :echnique works the other way a bund as we ! use shapes to analyze a sketch and then play with the composition as discussed.

### 03d

#### Step 03

HOW to the Fafe

Breaking the spell and coming up with new deas out of nowhere can be a challenge Let's look at a way to discover possible new ways of placing our elements on the canvas

Start with a blank canvas of any size you like say 600-pixe × 900-pixe. screen resolution (this is going to be a rough sketch for exploration, so there is no need for print resolution at this point) The example discussed in this step is in a landscape orientation

#### With a hard-edged brush, paint two

nteracting abstract shapes on the canvas Note the different impressions of the abstract shapes. To create tension, draw one shape. bigger in relation to the other. If two shapes are seen as identicat in size, they will tend to balance each other out, which will result in a calmer and less dynamic look (image 03a)

We're going to continue with the balani version on the left, touching upon the rule of thirds. The rule of thirds involves applying a physical or mental grid over your image usually made up of four horizontal and

vertica: I nes, and placing your focai point on the intersections or along the tines. Start by dividing Jusing brushstrokes) the canyas hor zontally and vertically limage 03b). Then decide where to put the center of interest

see step 64), avoid putting it in the cente.

Now addid agonal lines that further divid the canvas into interesting sections image 03c) Later on you can refer to these "Ineif action" when sketching Shapes hell to analyze a composition (image 3 sd) indican be a guideline for simplification n je Jše shows the tina compos ti i



▲ The final composition

#### The center of interest

The center of interest is basically about fascination. One area of the picture is given the quality of creating a powerful attraction If all goes well it works like a charm and the focus of our viewer is magically drawn to it

For a successful center of interest, ensure that other elements of the picture do not create distraction, they should support the effect. If their appearance is too intense elements will start to compete diminishing the intensity of the area of interest

Image 04 shows some interesting compositions in the top-left the scribble shows a composition with a center of interest reduced and simplified for maximum effect as a dot in the middle of nowhere, by eliminating all other elements in the image the viewer has no option but be drawn to the simple object in the composition. If we 200m in (top-right), we can detect a person Interesting! Coming even closer (mid-left) we naturally focus in on the face and the gesture (the center of interest is placed at the top-left intersection) until we are close enough see the beauty spot on her skin (mid-right) By placing the center of interest along intersections we are following the rule of thirds, which helps to emphasize the focal point in the composition

For mandalas (bottom-left), a centered focus area might be acceptable. Portraits of royals (bottom-right) or other aweinspiring figures can benefit from a symmetrical composition with the center of interest placed in the middle instead of somewhere to the left or to the right

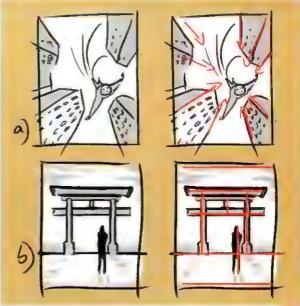
Give one part of the artwork special attention Decide where the viewer should look and this spot will have to hold the greatest contrast the richest colors, the blackest blacks, the whitest whites, and the loveliest details

#### Step 05

How to create dynamic compositions In the first chapter of this section on establishing your character, we briefly hinted at the effect of form in character design. It



▲ The center of interest in different sketches



▲ A dynamic composition versus a static composition

can be used in the shape of the chara is tself but it will also work when applied to the composition. A composition. ... be calm and stable or it can be wild and dramatic with lots of energy and movement Whatever you want to achieve the use 1 ime direction can assist you in your task mage 05a shows an example of a dynamic composition versus a static composition

For a dynamic composition choose ... diagonals. Guide the eye of the viewer in a rhythmic mot on through your design. For the effect of calmness use a combination of straight horizontals and verticals instead of diagona's the impression will be that of order strength and control. This is especially the case in artworks featuring a lot of symmetry in example it in image upa the character is placed a little closer to one side resulting in a more interesting composition

mage 05b shows an example of a thangular composition, which gives a dynamic imp in There's motion and energy in the pose of the two characters. This effect could be enhanced even further by breaking the symmetry, simply move this center of interest away from the middle me Remember diagonals are dynamic creating the impression of motion. Thangula compositions enhance the effect of n were to Wisher with a li

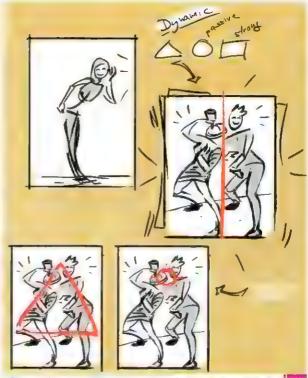
#### Step 06

#### Using perspective

The angle from which the character is seen will complete vialter the effection the viewer. The results can be subtle, but they will work nonetheless in this step we will ook at three ways to draw characters n perspective (refer to image 06)

- I Looking up to the character
- Z Looking down on the character
- Being on eye level with the character

Looking up to the character, the figure is seen from a position lower than themselves As viewers, we have the impression that he (or she) is towering high above us. This



▲ Triangles work on a micro level as well here as the elbow forms a triangle pointing in a direction 05th

will give us the feeling of being small or less powerful in companson. Use this position. whenever portraying a powerful superhero figure or a mature adult. This is definitely a pose of dominance and ability. The character 

Looking down on the character allows us to see the character from a position. which is higher than them. This will have the effect of the character being small and innocent weak or a child. If could also be a defeated enemy. The character can look up to the viewer or he can lower his chin to further enhance the look of submission

At the same height, we are equal to the character A connection seems effort est The character seems approachable so we may associate with them more easily



Examples of different perspectives



Positive shape and negative shape When framing the character you have to deal with two types of space positive seems negative. The positive space is to a toman subject whereas the neglige some is the area aro, no the main subject. That means that every item you put on a seeks w immediately change the dynam and , coption of the whole. The interest ements you add into an mage, the more you will a the negative space and how typian a character will ook in a composite it age. shows a character that has time to the rut and pasted back into the file. The layer has been darkened, so you can see the effects of positive and negative space.

Note how the stray have soft her crown are instructional and represents of the background. There is more repetition in the dean the lines at the bottom on the right. The shapes of the spikes seen at the top but to budger.

To test your orimposition for effectiveness as in mage 17 your canticting this technique

Cost twenth as terminal as a compact of the second of the

The experience of the special section of the sectio

Method as a second

Now my revery ary Slove a negative itage cert in the scaling m, all The enables space it averous pisters, as a site

#### Step 08

#### Dominant value

There in the rent ways to in serial sharalter. Sometimes to to the common late the testing element in a lead way. The insket thesial of the development of the common size of the common strategy of the commo

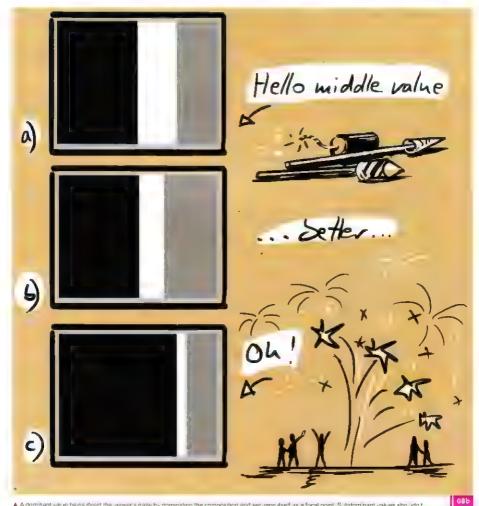


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 the mire interesting con all fitnings are a non-medgy fitnern is an emphasis that men entitle tistribution for establishment and the fitness are the medium of the fitness are the medium of the fitness and the fitness are the medium of the fitness and the fitness are the fitness are the fitness are the fitness are the fitness and the fitness are the fitness are the fitness are the fitness and the fitness are the



▲ A dominant value heips direct the viewer's gaze by dominating the composition and securing itself as a focal point. Subdominant values shouldn't be equal in area.

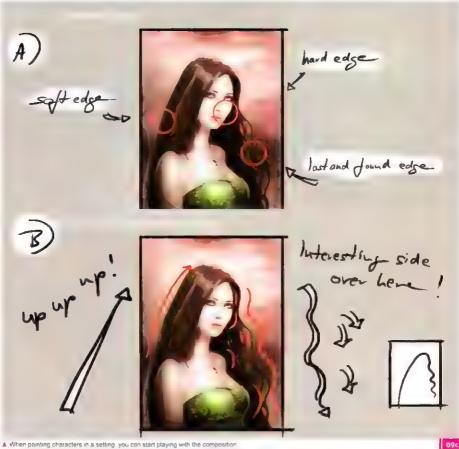




A Evange tusing by the



▲ \*everything is stipped in shadows, it would be hard? read sets is of the costume, for example



find a good mat, or of atmosphere and te in a carry maje 19b

#### "Playing with all of these qualities in a composition can give an artwork a more dramatic flow"

Now back to the edges. There are soft aityes are ges and est a found ndges Alant he skilling whereas a as no shoft riess define ast an folindleidges can replacedling more of a 3D effect of a subject or a a kar in the muse the char ter make or and the score att the a ut todstuck to Payora a firme cate, na capic na pre an arty of a risk of small forward.

tmage if shows an in writing is a example to wastletone stach a solvidada a ir cheas ness's course be my to Te eliste kep say, e . h + 1 e 1 ahl and then the to the and and alterpret sp . n is k 1 s1 - tr it speed of peries on a viveker

## \* PRO TIP

#### Flip your canvas

flipping command. When working · No the carivas and rotate it iund to out a freeh took (use Edit

## Storytelling and moods

#### Discover narrative arcs and visual clues

by Benita Winckler



Let's begin with a question, what exactly is a "story"? One answer is that a story has a beginning, a middle, and an end

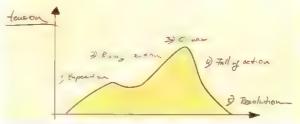
If we are looking at the narrative arcs of fictional stories for example, we will find that in the beginning a character will be introduced. We will get to know the surrounding environment and the people the character is involved with. The middle part will feature the adventure, the difficulties, the twists and turns the ups and downs, before finally, the story reaches its climax. After that the curve goes smoothly downwards again and the story ends.

Although the medium of a visual image is a bit different to that of text, we still have a person in front of us (the viewer) who likes to be led on a journey just like a reader does

#### Step 01

#### The problem of a single frame

What needs to be done to map a similar curve of excitement for our clustration? Here comes the first challenge, we only have one frame. If you are working in animation or film, you have several frames available and you can take your time to introduce the character and so on (images 01a and 01b). But how do you build up tension with just a single image? Our composition needs to



▲ A narrative arc for fictional stones

be carefully crafted. Then a timeline effect will happen in the mind of the viewer, as they follow our direction and decipher the visual clues we have laid out for them.

#### Step 02

#### Directing the view

A powerful method to direct the view of your audience is to have other figures looking in that particular direction. Think about those everyday situations where people form a crowd and gaze at something our reaction is to think that I must be executing if so many people stop to look at it. Most times we at least get curious.

In image 02a for example, the viewer's eye follows the supporting characters direction of sight. All the boys focus on the center figure, where the candle is shining so the viewer will look there as we'll

When it comes to light sources humans are not so different to moths, we like a nuce, ght source. Light attracts interest and also directs the view cmage 02b). A character in the spotlight will demand our attention naturally. You can either have the light source visible or you can omit it showing only the lit character.

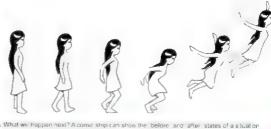
Another thing that demands our attention is movement. Our characters are supposed to be life-like and be levable, so if something altracts attention in the image, they will look as well. Movement can be difficult to pull off in an image, however, we can show our characters focusing on an object.

#### Step 03

#### vocation and time

Who? What? Where? When? These are all important questions in storytelling. To y sually indicate the location and the time.





▲ What will happen next? A comic strip can show the ibelore, and lafter states of a situation





01b

♣ The viewing frection's 1 powerful tool to get seople to took at some. Ing







A The ocation plays an important role

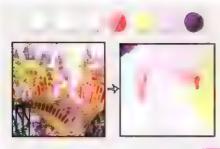


▲ The bagpipes suggest the location

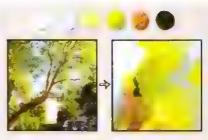
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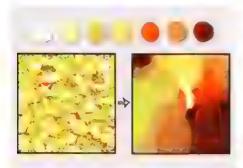




▲ Play with the dominating color using a textured brush



04b



▲ This color scheme is dominated by warm red and golden hues



▲ A muted palette with plenty of opportunity to paint blue shadows



# "You can greatly enhance an image by giving it a clear dominant value. This can be the middle value, the light, or the dark"

# Step 04

# Spring and summer colors

When making design decisions for a character an effect that is often overlooked is the use of seasins. Let's first look at springtime inature is back and it's time for colors! Subtie cool hues can serve as contrast for the pinks reds and fresh greens The mood is joyful! Place your character in a spring scene to convey positive feelings Show blooming trees and clear blue skies

Summer conveys the feeling of perfect days outside with deep blue skies and warm air Everything ooks bright rich and vibrant. The colors are britiant and intense and the shadows are strong. If you look around during midday notice that the light s almost overpowering, washing out the high ights and casting harsh shadows

05a

You can either select colors intuitively from Photoshop's Color Picker (or color wheel) or you can collect color inspirations. from photographs and paint your palette from there ( mages 04a and 04b). You can greatly enhance an image by giving if a clear dominant value. This can be the middle value, the light, or the dark

# Step 05

# Autumn colors and winter colors

Autumn features the most wonderful hijes of gold and russet colors, but on bad days. autumn can offer ideal conditions to portray gloom foggy streets heavy rain wind pulling at umbrellas and hair. You could have the character grab the collar of his coat to

keep off the cold or if you are a mind for a playful mood positively surround him with whirts of go den leaves. Adjust the outfits. accordingly add scarves or earmuffs.

A winter palette basically consists of blackand-white bluish gray tones. With most of the colors missing you can only play with the effect of warm light against cold Dominating cool areas are perfect to be set off by red growing spots of fire or the warm ight of interior places. Explore the possibilities of outside, riside scenarios The mood caused by winter if analyzed further will show an association with an archetypal danger, but also mystery and wonder. Think starry nights and virgin show

# Step 06

# Archetypes and symbolic elements

Since our image is lacking a timeline to lel our story we have to find another

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A charac er on her way usek from the underworld



▲ She calnes an opicin poppy sympol of Mn pheus and 12 earns

TROTAL

Using color palettes to create mood Now let's focus on mood by taking a look at color palettes for dark characters. First thoughts are to use lots of black and blue and to stay within a monochromatic color scheme instead of using plenty of colors Analyzing the distribution of dark and light areas, you will notice the portrait in image. 07c s predominantly light in comparison to the portrait in mage 07a, which has the dark values dominating. Add tionally, a blue color scheme is used in 07a, a classic combination to get the desired effect

instead of painting everything black however you can play with the concept of darkness itself. In mage 07c a warm color scheme slused but by enhancing the shadows close to her face, a dark area is introduced that will draw attention there. The angelic elements, such as the silver hair and porce ain skin, are harshly offset by the dark red shadows. Her eyes are alien black another element that tells us that there is something out of the ordinary going on

nterestingly enough you can get a dismaalmosphere by using colors which would normally be perceived as being mild and friendly such as paste's pinks gold and warm reds ( mage 07d). Furthermore, the mage doesn't need to be all dark to or vey the atmosphere successfully. Composition plays an important role as well as the facial expression of course, which is naturally a key element to set the mood instantly

# Step 08

# Light and color

Lighting has significant power over mood and perception. Using a single source shadow on the face in high-contrast can signify mystery if highlighted with red it can signify evil. Color also affects our emotions, making this a great storytelling tool as well. As you saw in step 04 colors can trigger emotiona. responses and connotations, see also Setting up your color swatches" page 36)

Let's quickly discuss nature's rules iso that we know our subject. Image 08a shows an example of a snowball hit by the warm



▲ Dominaling color here is blue, a classic decision for a dark look. A cold red is used for contrast. 07a





A Use dark shadows with angelic while to get the an enigmatic effect, without using blue





▲ Main light source is the sun-secondary is the sky-causing the color in the shadows to look blue | 08a









orange light of the evening sun. Note the cool tint of blue in the shadows? That's actually light bouncing from our secondary light source the blue sky. The holes in the snow are areas that receive very little light, neither direct light from the sun nor indirect light from the sky as a result, they appear very dark.

Before picking a palette we have to consider where the light is coming from Is it natural or artificial? Is it morning or afternoom? What are the colors of the environment? Once we know the light source we will have an deal about the colors and their temperature.

However natural light isn't the end of the story, if we want maximum effect, we can bend the physics a bit. Images 08b and 08c show the use of cotor temperature as a contrasting element in a design. The golden light illuminating the character is not to be found on the fish and rocks in the foreground in image 08c adding a slightly

ethereal fee to the character. Contrasting a warm shade against a cool one can also add a of of visual of the est to a design.

mage 08d (previous page) shows how instead of changing the foreground color you can also lower the saturation of the character in the background to push it further back. To find a nice color combination use the Huil Saturation dialog box or use an adjustment ayer image 08e, the changes in the huil and saturation of elements in your image cochange the mood of your image.

# Step 09

Us to the test

By creating selectris and masks you can so also in modify sections of your image allowing you to easily a ter mood without having to repaint areas. If you net dream ke backdrop for yield character try this bill effect. This can be overdone but if used spannightly gives a subtle ethereal quality.

Set the workspace to Essent ais as i havi in see the same pane's want two copies of the same layer holding our mage. One aver will be blurred and then masked to et the ong nativersion show through First make a copy of your ayer if your fire has several avers use. Edit > Copy. Merged to get a merged layer of your mage. Put that layer on top of the layer stack rimage. Ogal, or create a new doc.



Copy your character image layer to get two exact copies

hit the Mask corrections to the mask of th

# Step 10

area to check the coverage of the
is we wanted. Select the bottom aven hill
made > Ad ustments > invertional
ke a negative. See the area covered by the
indiction of the coverage of the cover



▲ The Mask icon creates a layer mask

09b











Next well soften the transition. Click the Mask thumbnar in the Properties panel pu the sider to feather the mask ( mage 10b). To apply blur to the image first click the mage thumbnal of the Mask layer. From the menu bar select Filter > Blur > Gaussian Blur decide on a value, and confirm umage 10c) To lower the effect of the blur simply reduce the opacity of the layer a together, by using the Opacity slider in the Lavers pane or (this s the more controlled ways use a soft brush and paint on the mask to make more holes. Make sure you activate the Mask thumbnar when trying to after the mask, otherwise you will paint on your mage it can easily happen! You can see the effect in image 10d



# **Character generation**

Find out how to use Photoshop tools to create a character

Now that you have discovered the key tools and theories behind character creation, it is time to put them into practice. Bram "Boco" Sels will guide you through a complete character generation process. Using his own character creation. Bram will break down the workflow explaining each setting tool, and technique he uses to develop his design. From using masks to paint skin and custom brushes to paint hair to adding background texture to ground your character in a scene, you will learn a vanety of methods you can then apply to your own paintings.

# Body type and skin

# Figure drawing and painting realistic skin textures

by Brom "Boco" Sels



In this section we'll look in-depth at how to create a heroic 19th-century character for a video game. It's tailored to concept artists who are just starting out, as well as more experienced concept artists who are looking to hone their skills. The approach is simple: each chapter starts with some insightful theory, followed by an explanation on how to create part of the character, all leading up to the polished hero pose in the final chapter. Need to design just the portrait or the costume? No problem, just skip ahead to their respective chapters (pages 88 and 104) and start from there.

By following this step-by-step tutorial your designs will become more flexible and you'll be able to quickly do thousands of iterations of the same subject without effort. Don't like the head of your character? Just unscrew and replace it with a new one. Not sure about his mustache? We have a few others in stock for you! We'll go over all the basics you'll need to paint a flexible easy-to-adapt character ready for the production pipeline of the AAA-studio of your dreams.

And to top it all off, this section is filled to the brim with quick tips such as how to use the Pen Pressure toggle to your benefit, how to create your own



▲ Some really quick anatomy studies, each taking about 5-10 minutes

textured brushes, how to use the free PaintersWheel palette, how make your character feel gritty by applying the

Noise filter, and how to conjure mood with custom fog and particle layers. My fingers are tingling to get cracking!

"Your painting techniques quickly improve if you do some studies every day'

# Step 01

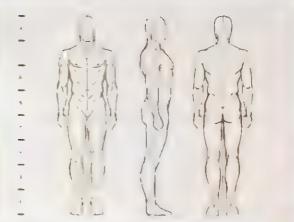
#### Warm-up 1.0

When I start on a new piece I almost always do a warm-up first. This is a step that a lot of beginner artists are tempted to skip

Mainly because they feel it's a waste of time and working on an epic environment or character is so much cooler than doing small anatomy sketches or perspective studies. If is however a step that I fee is absolutely necessary for two important reasons

First and foremost, your painting techniques quickly improve if you do some studies every day and it broadens your honzon a lot too. It forces you to paint different subjects in rapid succession learning something new with every session. Second though warming up seems like a waste of time when you have a deadline coming up a good warm-up makes you paint faster and





A blueprint of the perfect body. Really focus on how body parts are positioned around the center line.

more fluently so you'l regain that time (and even more) throughout the rest of the day

## Step 02

# Figure studies

Every art-school student goes through figure study classes. The reason for this is that the human body is often the main focal point of an illustration and is very hard to master. We are constantly looking and interacting with other humans so our eyes are trained to quickly detect inaccuracies when we see a human body in a painting. The good news is that it is just a matter of practice.

When you do figure studies (and you can't do enough!) you start to notice how light impacts the body how muscles connect and how perspective and foreshortening change what we see of the body. Practice every day and you!! get better in no time mage 02 took me around 30 minutes.

# Step 03

#### The human machine

Of course, the human body is different for every person, but a reigning theory in art is that it all starts from a perfect base – an ideal body that can be modified to create different body types. So following that theory you start

aut by learning how that perfect body works. There are different approaches to doing that but one of the more famous ones is that of Andrew Coomis, an influential American Tustrator, art. instructor, and author.

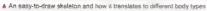
Part of this approach involves measuring body parts against each other in order to get proportions correct. For instance, the dear body is made up of 7.8 heads so when you draw the head you can quickly measure where the feet should be. The crotch is exactly in the middle of the body and the bottom of the breasts and knees are in the middle of their respective halves. The body is also three heads wide and the shoulders and crotch should create an maginary trangle that goes between them



▲ Using the Pen Pressure toggle for opacity gives you more control over your brushes









▲ The ideal body, leaning on his right leg 05

#### **Imaginary heroes**

up until now the only thing we have done is study the perfect human form and how it's translated to a drawing, but what if you don t have an exact reference for what you want to draw? As an illustrator or concept artist you should be free to draw whatever you can imagine, so copying a reference 1.1 will get you nowhere. (Unless you have a bearded dwarf or an alien locked up in your basement, that is )

Artists often have to draw bod as for which they don't have a reference, so an easy alternative is to start with a shell that looks ike a human and for which you do find a

reference. That "skeleton" is easy to draw can be moved around and posed without much work, and afterwards you can draw whatever you want on top using your (human) reference as a guide. Drawing a small muscled dwarf for example? Just broaden the head ribcage and hip and move them closer together

# Step 05

#### As in our might have

Around 500 BC the Greek sculptors became masters of anatomy by studying the idea body and creating millions of sculptures to its likeness. They almost always placed the weight of the body on one leg making the sculpture a lot more dynamic. Compare

this body to the blueprint of the body in image 03 and notice how the entire body language changes, even though it's based on the same blueprint. Closely study how the muscles group and how the center of gravity slightly moves towards the left

"A body with correct values but wrong color still looks okay, but a body with wrong values quickly looks anatomically incorrect"

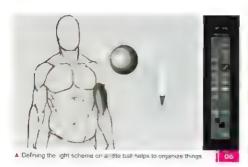
# Step 06

#### Key light/back light

Trying to figure out how to light a body might feel difficult and overwhelming at first, but it

# RO TIP Lock transparent pixels When you're working on a character, masking is always one of the first things you should do. Besically it means you paint the simpuene of the character you're working on and use it it tile a lever below the line art to act as a mask and in thill top of the Layers paletie you can lock transparent pixels; which blocks of all pixels in that laver that are empty (in other Words, everything outside the silhouetie). Now when you're painting you don't have to mind the size of the bruen you're using, since all paint will stay nearly inside the mask

Masking out the silhouette of a character can really speed up your workflow.





A The value block out for the body

becomes a lot less daunting when you go all it one step at a time. A great tip is to start out in black and white. That way you can focus on the values without being distracted by the color and temperature of the skin. A body with correct values but wrong color still ooks okay, but a body with wrong values quickly looks anatomically incorrect

Another great trick is to define the lighting scheme on a ball before starting on the body A common lighting scheme in concept art is with a key light (the main light) from the front and a rim light (back light) from behind Note in image 06 how the muscles react a most the same to the light as the ball

# Step 07

# The body as a whole

Keep in mind that the body remains a volume in itself. See it as a grant cylinder and think about how that giant cylinder would react to the lighting scheme you defined in step 06 It's not enough to define every muscle according to the lighting scheme, you should also keep in mind where those muscles are on the body of they are on the light side of the "cylinder" they will of course be lighter than the other side. This is most clear in the biceps of both arms. The right bicep is on the light side of the body and is almost entirely lit. while the left bicep hides in the shadows of the chest that sticks out and blocks the light

# Step 08

Highlights, midtones, and shadows After adding in the basic values, try to define a color scheme. Different lighting conditions have a different impact on the body but for

this study we're keeping the light neutral so the skin tones will be fairly neutral as well Caucas an skin tones often range from purple to deep red to yellow and even green

When you look mosely at a person's skin you I see that there's a intimore information there than you might expect. Still it's best to define some common skin colors at first and start from there. I usually change the painting mode of my brush (you can find that in the Options bar at the top of Photoshop) to Color, and give the entire body a color. wash in this case a warm, orangey tan-



A Defining the skin colors, the arrow points towards the main wash

08

#### Color zones

Often skin tends to have areas where a certain color dominates over all other colors. Once you re familiar with these zones, t becomes easier to notice them and eventually predict how the skin there will react to the light.

When you move lower down the body skin tones will gradually become more reddish and purple than they are around the chest area where they I be more yellow and orange. You can especially see this in the hands knees and feet. This has its effect on the shadows as well resulting in dark purple shadows in those areas and warm shadows around the chest. Look for some references when painting these areas they will reality help out a lot to get your figure correct and realists?

# Step 10

# Refining the body

The last step in this chapter consists of refining and detailing. A though you already defined the values a few steps back you should still keep working on them – nothing is set in stone at this point. Push the highlights as much as you can and try to create I velly shadows by introducing vibrant colors to the darker parts and areas. Take a step back from it once in a while so you can come back to it with a fresh eye after on it often makes you notice the mistakes and gives you a fresh perspective.



▲ The body gradually becomes more reddish near the bottom

09



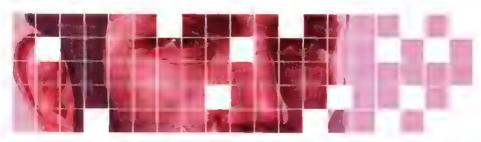
▲ Creating a noise layer to blend over your skin will often give it that extra edge



# Designing and painting the face

# Mastering the techniques to create a life-like portrait

by Bram "Boco" Sels



Portrait painting has been around for centuries. Before the invention of cameras people mainly used it as a means to immortalize themselves, but with the rise of photography it lost a lot of its popularity. The reason for that was that photography could achieve the same effect a lot quicker and thus cheaper.

With the development of concept art, however, methods from portrait painting have become a fot more popular again – be it as a way to put existing actors in imaginative environments or to create characters that don't exist in real life but flook so convincing that they could do

To create such a character it's important to master the techniques needed to create a life-like portrait. In this chapter you'll learn, among other things, how the skull is the foundation of the head and how it changes the distribution of light on the face, you'll see how the direction of the light can dramatically change how a person looks and how the face is made up of different color zones. You'll learn everything you need to know to paint realistic, imaginative faces from scratch

# Step 01

Warm up 2 0 (the classy one)

AS RETTE PROTESTABLE TS Important to warm up when starting on a new



♠ Five head studies from Wiki Commons, taking around 10 minutes each





Studying the skin that's on my desk. On the right you can see how it can be reduced to basic primitive shapes.

piece This time I opened up Wiki Commons and browsed through their enormous library It's a fun thing to do and browsing through different eras and different subjects expands your internal reference library each time

Eventually I stumbled on a set of early 20thcentury gentlemen and decided to do a study of a few of them. Something to think about while doing studies like these is how the eyes can really define the character of a person Got to love that fac a hair too. I wish could get away with a mustache like that!

# Step 02

#### Skulls are awesome!

Write this down you should do at least one skull study each year. Not only is it a coosubject it really makes you understand how the human head works - how the law connects to the rest of the skull for instance and how the brow and the cheekbones define the form of the head. It's a good idea to get yourself an anatomically accurate skull to refer to white painting

When drawing the skull you'll start to notice that it basically consists of a few simple shapes a ball with the sides cut off and the thin as a rounded square protruding from It Understanding these simple shapes is half the battle when painting the head

# Step 03

#### Lighting the face

Starting out with the simple shapes from the previous step, you can construct the rest of the facial features on top of them. Keep the facial features simple at first, it will be a of easier to light them that way. Notice in image 03 how the nose protrudes from the face and how the eyes are (obviously) round and should be lit that way

The two lighting schemes on the right of mage 03 are pretty basic but very common in concept art. The first has light coming from the top the other from below Depending on where the ight comes from some planes will be lit while others will hide in the shadows Arways keep in mind how the planes are oriented towards the light planes directly facing the light should always be lightest



Different lighting conditions have different effects on the head



A. The line art for the head, trying to create character with the facial features

# Step 04

# Creating your own character

aspired by the warm-up in step 01 | wanted to create a face that looked both worn and rugged but still appeared stylish and 19th-century-like I wanted to create the main character for a fictional video game, and chose to go with a Caucasian bearded hero type

I started out with the basic shapes from the previous step and once they were correct I placed a layer on top for the details systematically erasing the under drawing as I went. In this step it's important to really look at how facial features are constructed. Look at how the eyes have eyelids and how they work. Note how the nose as well as the mouth is divided into planes that flow over into each other

# Step 05

#### Masking the face

As with the body I created a layer below the line art to function as a mask The idea is to keep all paint within the mask and still have the lines on top of it



▲ Creating a mask, while simultaneously checking the silhouette

03

unharmed Eventually these lines will be erased and biended with what's below

Creating a one-color mask will also give you a clear view of the silhouette of the head. There is a lot of character in there as well, the hair for instance is slick and thin and cuts into the silhouette above the ears and on both sides of the forehead. The same goes for the beard and his left eye socket (see image 05)

# "Because the face is often the focal point of an image, it is important to get the facial features just right"

#### Step 06

#### Blocking out the main planes

Keeping the same lighting scheme as for the body in the previous chapter. I started blocking out the biggest parts of the five I ve put the hair on a separate layer so that I can focus on it later on As with the body I started out in black and white to real i concentrate on getting the values right

This is the step where knowing how the face 5 divided into planes really comes in handy The planes that face the light directly catch most of t and will be the lightest. You assunotice that some transitions will be shart. Tke the front of the nose) while others will be a lot smoother tike the forehead.

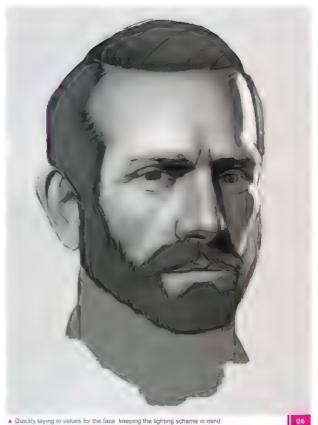
# Step 07

#### Refining the face

Because the face is often the focal point of an image, it is important to get the facial features just right if something is a little off it will skew the entire character. Get into the habit of flipping your image once in a while ( mage > Image Rotation > Flip In vivi Hor zontal) it gives you a fresh view so you ii notice mistakes in a heartbeat rimage 0 +

White you're refining it's also very important to gather the right referer > Look at how eyes reflect the light sourcehow the tip of the nose often catches a hiphidht and how age lines turn with the shape of the skull. Note that herr the head will have a lighter's de and a darker side Depending on the side tiwe "Face how the fac a features should be if

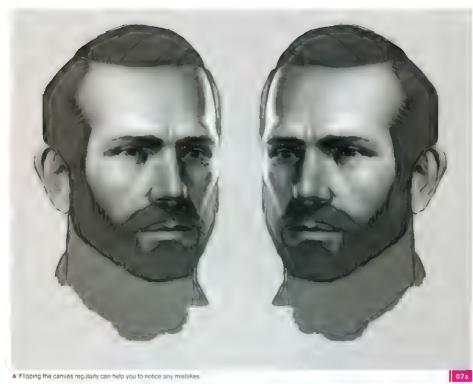
When rendering I bas cally stick to the same basic round brush and a textured brush Using the Opacity Pen Pressure toggle helps me to achieve some interesting complex ties. Loften use a seamless His that tuse as a texture in my brushes as well It has a convince grain in it that works really well to give the impres . . . (1 pores and details on the skin (image 07b)



· Quickly taying in values for the face, keeping the lighting scheme in mind



▲ Len White s PaintersWheer a free and very accessible plug-in for Photoshop



▲ Flipping the canvas regularly can help you to notice any mistakes



 ${\bf \blacktriangle}$  Refining the facial features using settings like these can really give the head a lot more character

91

The color zones of the face

When thinking about color the face can be divided into different color zones it all depends on the color of the light of course but for Caucas an skin for example when the ight is neutral, the top part of the head tends to be more yellow, the middle part more red, and the bottom part more bitle  $\mathbb{Q}$ , dy

This is especially true with male faces due to the facial hair they tend to have around the chin, which has a very distinct blue gray tone. This should be subtle of course and should not be exaggerated but knowing those colors are there makes it easier to see them when poking at reference photos.











Applying the color zones on top of a brownish base color

"You'll find the most intense reds around the tip of the nose and on the top of the cheekbones"

# Step 09

#### Toning the face

To tone the face. I created a mask over the area of skin, wanted to partifice image 09a). I then started out with a wash in the same color that used for the body in the previous chapter. After that ikept the painting mode of my brush on Color, but changed the opacity to 25%.

One by one it color-picked the colors from the last step and went over their respective cones see image 09b). Again look for some references online and make a mental tote of where the most saturated colors should be on the face. You I find the most intense reds around the tip of the nose and on the top of the cheekbones for instance. Don't overrio it though for your character will quickly look unrealistic or like a drunk.



The head is not a cue bal.

That's right, the head is not a second secon

- the cast y are
- ET TWEET

and used a fextured brush to get some extrainoise in the skin, see pro lib on the right). I took the time to make the age lines pop and to polish up the eyes maxing them appear more lively it also noticed that the forehead should be a little lighter and that the overal contrast could be booked.

To boost the contrast on the forehead use the Dodge tool set to High!

To build up values and to get vibrant colors in skin. The scars and irregularities are the changes in the midtones that have a shadow side and a high ight side. Using the textured brush means they fit in nicely with the right he skin. It's important to keep it subtre here, the strongest high rights and shadow to be preserved for the big of snapes like the forehead, evel sockets.



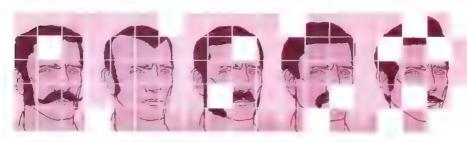
▲ Using the texture option in the Brush palette to get some extra bumps in the skin



# **Painting hair**

# Techniques for painting hair and creating a brush to speed up the process

by Bram "Boco" Sels



Painting hair might seem very different to painting a face, but you'll soon discover there are more similarities than you might expect. There is one big difference though, and that is that hair is anything but static, so it's harder to predict where and how it will move There's no anatomy involved either so you can't really measure it against something. The only thing you do know is that it follows rules of gravity and is therefore likely to fall in a certain way.

I used to struggle a fot with painting hair. I just couldn't get a handle on it until I started learning about sculpture it was a real eye-opener to see how classical sculptors were able to render realistic-looking haircuts by chiseling hair from marble. It drastically changed my approach to painting it

Instead of looking at hairstyles as a combination of individual hairs. I began to see them as solid forms weaved through each other. This not only made hair easier to understand, it suddenly became clear how hair should be lit as well

Here you'll discover how to light those solid forms, as well as how by adding little specks and hairs you can create the Illusion of the haircut consisting of thousands of hairs. You'll also learn how to create a simple brush that can save you an huge amount of time

"The haircut alone can really help define the back story of a character"

# Step 01 Warm-up 3.0 (the stylish one)

During this warm-up I copied the line drawing from the previous chapter and fried some new hairculs on it, just to broaden my horizon. None of these ha routs made the final cut (pun intended), but I don't think it hurts to try experimenting anyway.

For the sake of this tutoria. I quickly masked out the hairstyles in image 01 you II simmediately notice how much the shape of the hair can affect the way your character looks. The sharp point on



A Five different hairstyles each generating a different back story







▲ Coloning the hair is a lot less difficult if you make sure your

03

"Think about how you would chisel hair out of marble and try to mimic that in your painting"

# Step 02

# The shape of the hair

Beginner artists often make the mistake of thinking about hair as individual strands. By thinking about it like this you are tempted to meticalorist, paint each one implications.

further from the truth. Hair has the fendency to group into locks and those locks an larger shapes that react in the sa to light as every other shape would.

# Step 03

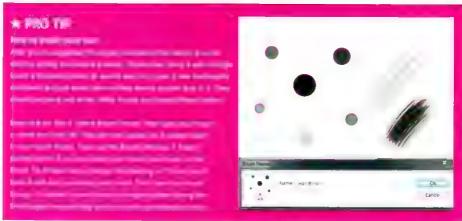
# The color of the hair

Painting hair does not differ from painting anything else in the sense that values

and white it will look helievable in color

your design if your values are correct bull you can tiget away with bad values.

As a quick tip 1 would advise that we never use pure black in the areas of shadow or pure white in the high, ghte areas even black gray or whit.



A Creating a new brush is a quick and easy way to fill up those big volumes of hair

# A masic of hair

Keeping the halrout on a separate layer is a good idea when you start laying in the big volumes. By selecting Lock. Transparent Pixels in the Layers tablyou can use a big-soft brush on the sides to manually create some gradients. Using this technique also forces you to see the haircut as a solid shape rather than a combination of lots of single hairs, so it will be easier to shade it as a whole as we!

Look for instance, at the shadow under the nose and bet no the ear By (a) to , t roughly now. I'll manather thave a strong highlights in those parts, after on. There is a pitfall in working like this however we rereating haircuts and not hairpieces, so will need to remember to work on the transition between the head and the hair lon-

You can change the settings I your custom



a Masking the hair is great to get some gradients going, but keep in mind that you're not creating a hairpiece!



Hair is grouped in locks that are draped around the head in different directions

the desired effect. The most important things here are to change the Spacing to 1% and to turn on Shape Dynamics to get Pen Pressure opacity. Turn off the Size Jitter though in order to keep your hairs straight and consistent (image 04) Scattering Texture and Dua Brush mode shouldn't be used here because they will make your hair feel messy and cluttered

# Step 05

# Twist and turn

A haircut is mainly defined by how the bigger locks of hair are cut and draped around the head. When designing a haircut it's a good. dea to think about which way the hair is turning. In this case, the slick hair on top of the head will be neatly combed to the side flowing over into the beard which will be more rugged and chaotically weaved (image 05) Mustaches can be the exception and will often be neatly combed and modered as we I

Use your brushstrokes to suggest the direction of the locks, try to use large brushes. to avoid the individual-strands-of-hair trap

# Step 06

# Color as a statement

The color of a haircut can be a statement in and of itself. In this case, I wante to the character to look a little wiser but still not to: old so I decided to give him dark hair that started to turn gray. For the beard, I wanted to give him a salt-and-pepper kind of look warm dark browns combined with bright gray and saturated browns around the mouth

You can change the mode of the brush itself to paint in Overlay in your current rayer without creating new overlay layers (see image 06a). You can use this technique instead of the Dodge tool to book, the highlights and to sneak in some new colors As touched upon earlier even when painting gray hair you should always avoid using neutral grays. It's better to go for either a warm gray or a cooler variation (image 165)

Using different colors helps prevent the haircut looking dull and unoriginal and sightly builds up the character by giving him another edge



A Changing the brush mode to paint on Overlay in the current layer



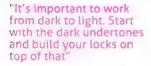


▲ Coloring the beard with a salt-andpepper lone

# \* PRO TIP

# Blurring the hair

(is not hard to traveline now heir atrainds fall in layers on too of each other, selks a good rose to actuary approach is that way in Photoshoo. Creets a layer for the base of the hair and kees pading layers of heir you work from derk to light you shipping work from derk to light you shipping work from



# Step 07

Dark to light

When painting hair it's important with the residual pour focks in the state of the above) use big brush is supported to shapes and rough values and in him iterates to group in ocks (image 07, it's a bit different for the heard's noe it is a hair different for the heard's noe it.

Lastly put a few hairs every which way to avoid getting a stente and unrealist haircut. And if you really want to make the content of the con

# Step 08

fret tarth he

Every now and then its important to step back and see the bigger picture. When the first thing you online is not a dill strands of the right of the



▲ A step-by-step breakdown for painting hair



▲ Using Lighten and Darken as painting modes to pull it all together



"No harrout is perfect, there will always be a few hairs running against the stream"

## Step 09

There's perfection in imperfection

Notified with the words with

towards a grant or a g

Long display and with the foliage of and set of the foliage of the



▲ A harrus personies also nicle convincing flatow hars stray away from the path



▲ Use reference photos to your benefit when painting – there's a lot of valuable information to be found in them

Move to the har me

At this point I felt the hair ne of my diller ey t y t t t x t zy t traf , , , , , pward ye to yet a sector page. pressing Ctrl+Sh-ft+C (to copy merged) - Jo paste) Now the entire hair is in a new layer which I then nudge to to be come if the part of the territor the he

v 1.6 Tky 16 extra tiny r + r r n a type to be the

gar to the highly a b f f b b a The second of the



▲ I move the hairline forward and introduce more brown to make the character fee a bit younger 10



# Designing a costume

# Painting different materials to create a 3D feel for your character

by Bram "Boco" Sels



Generations upon generations have expressed themselves through fashion and that s precisely why concept artists can greatly use it to their benefit. When you look at someone's clothing you immediately (and perhaps even subconsciously) picture what type of person it must be it is a form of prejudice that can be wrong and huriful in real life but often spot-on in movies and games.

There's a good reason for that because of the fast pace of most movies and games you should be able to take one fook at a person and judge what his or her role is in the story. The concept artists behind the scenes are expertly trained at communicating this, their job is to create characters and environments that speak for themselves, show history and are rich with a back story in the previous chapter you learned that the shape of the hair can be helpful in doing that. The same holds true for the clothing you give your character.

It is important to remember that every decision that you make as a concept artist should contribute to what you are trying to communicate through your designs. If your character is a villain for instance giving him sharp, dark clothing will help to reinforce the idea that he is bad and make him seem more evil.



▲ Quick studies of some 19th-century outfits

This chapter will take you through everything you need to know to give your character an interesting costume from how to paint different materials to how to translate that knowledge into painting onto volumes, to achieve a lively and 3D character

#### Step 01

Warm-up 4.0 (the historical one)

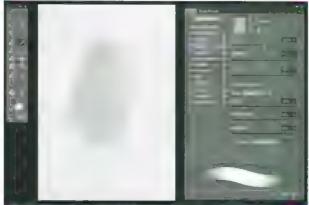
Aid fferent kind of warm-up this time! I had to move forward with the 19th century theme in had going in the previous chapters so illopened up Wilk Commons.

again, this time researching costumes from that period. I wanted to create a hero, so I tooked a lot at military uniforms and did some. (the studies of the outfits that reary spoke to me immage 01,

I particularly tiked the German deadhead solidier's roped jacket, the officer's jacket litons, and the brue boy scouls crossed leather bands. I looked at paintings contemporary to their mais well. You can't have too many references so I created a new folder in my reference library for everything, could find from the 19th century.



▲ Different material studies for the outfit, each with its value range beneath it.



An example of one of the patterns and brush texture settings I used



▲ Three mannequins ready to be dressed

formers it make rats

hen painting outfits you If come across a ot of different materials. Each material has a different color and texture, and reacts differently to light. While warming up noted which materials were going to return in the outfit and did a separate study of those

n image 02a you if notice that there's a big difference in values for each materia. I ve put the value range in black and white below each and you I quickly notice that materials like metal and gold reflect a lot more tight than fabr es. Their high ights are stronger and they reflect their surroundings a lot more cleany than the fabric, which has is stino his lights but does have very dark shadows. The texture is also different in each mater a some rough some smooth

To paint the different materials used exactly the same brushes as I did for painting the lace I did change the pattern in the texture mode from time to time though uses image. 02b) You can find great textures on sites such as www.cgtextures.com. To create a new pattern, down oad the image and open tin Photoshop Then click Edit > Define Pattern To get that sleek lighting look for the glossy-ooking areas on the edge of the balls n .mage 02a Tused the Dodge and Burn tools around the edges of the ball masks The high ghts were painted manually

# Step 03

Maria and

Just like a fashion designer start out with an anatomically correct mannegum. Picture it as a dummy which you dress up the way you like II shouldn't be too detalled since it II be covered with clothes, but it's important to get the big volumes right. If the base is incorrect. it will be very difficult to rectify it later on so really make sure the foundation is right

Eventually I duplicated it so I have three figures and can therefore create three entirely different outfits. This way you keep your mind open and especially in a production pipeline it gives you a few options. to show to your ment which is always safer than coming up with just one suggestion.

## Dress to kill

Dressing up a character is such a further and of the right your character is fell and further than the character with a rough no nonsense kind of sodier with a roped jacket and dirt covers over his partial but guickly felt that he needed a long coal to raise his status and to make him more heroic. In the second character I kept the roped jacket and introduced boots with spurs to suggest heigh have a horse somewhere.

The last character I drafted had a different type of coat. I gave him a ceremonial swittle push his status further (see image...)

# Step 05

# Assigning values



a Three lostume designs using elements from 19th-century costumes but combining them to create something new and unique.



▲ Thinking about the big values is important if you want to create a character that's readable

Still all these elements will have to work together and support the character

ts important to keep this in mind and think about what you want to emphasize and what you don't For instance note that in mage 05 there is a difference between the roped jacket in the first character and in the second. In the first I chose to use light ropes spanish a dark jacket in the second. See tight ropes against a mid-range jacket.

As a result you can see that the yes in the second as kell sections as it more sufficient the earth has simily estimated by the butters or the load.

## Step 06

 $M_{\rm col} \to \tau^{\rm r}$ 

Once you've settled on the basic values

you start thinking about volumes

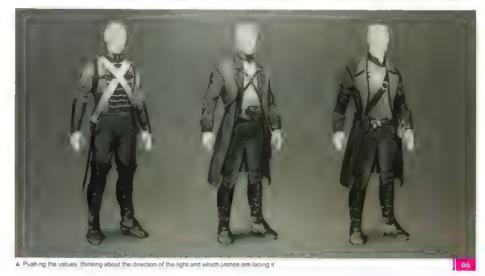
you to start thinking about volumes

you to start thinking about yourses

you start the painting the body

that instead of painting muscles year of noting different materials and wrinkies.

THE WAR A proposit I however is almost the same. Think about the body at a cylinder think about what side of the cylinder you're painting on and lat common sense take it from there. It also doesn't hurt to keep some references open in a separate window. almost never paint without them.





▲ Checking the Histogram once in a while keeps your values balanced and alive

# "Depending on the material you're painting, those highlights and shadows can differ"

# Step 07

Picture ti

As an artist, an important skill to master is to be able to visual ze what you repending in front of you. Think about it as a 3D object you can turn ar itum in your head and envision how I out falls on it in this case, the key light sit comes from the front left so in my mind I try to visualize a cutoul of what impaining in front of me

In image 07 I've highlighted the parts that are directly facing the light, which should be lightest the black parts can tibe reached by the light, so naturally they il be darker.

Depending on the material you're paint in, those highlights and shadows can differ For example, the white jacket will have a lighter value range than the dark coal.



A cutout for part of the costume. Note where light hits hardest and which areas hardly receive light at all.



A Photographic textures can really liven up your clothing



"When working in black and white you don't have to worry about oversaturating the colors, so burning and dodging areas is a quick and easy way to push the values"

#### Step 08

#### Pushing the values

A great way to push the value of other that is push your doors darker and your

lights bighter ( , x ), a Except at Dodge tools ( ) and so and a color of the color

Yo han use the Birn too see he does are on page all with a lith rush to grover every overlapping partition by the profits.

For you can use the Dodge tool to really shiften highlights to where you really we first that the Foundary the Foundary that the Foundary the Foundary that the Foundary the Foundary that the Foundary the Found

Kie, 1. dital has are large. So a sin , with You can 1. Sin a sin a with You can 1. Sin are large to the maje for a sin and flat maje. Sit left skey here remember that extra nateral has sivaluriable.

#### Color through history

The account of this or, syrestern the right colors for your less gos, an really make your character be even to Think about what people dressed like in the view and try to picture a member of which is those colors Doesn't work first yet.

In the case of my 19th-century hero it not sed the recurring colors from that per were navy blue other and burgundy. So with those colors in mind and a brush with the painting mode on Color if quickly went vertice bigger elements it is volume to the bigger elements it is volume. The ifferent combinations. After that I gave them or vertically in the combinations.

#### Step 10

#### We have a win ter

After a white I settled down on the second the time I set is feet to prove Jacks were the first of the three and I I ked the double-colored  $\mathfrak{g}$  is combined with the  $\mathfrak{g}_{\mathfrak{g}}$  is  $\mathfrak{g}$  is  $\mathfrak{g}$ . In the third design is  $\mathfrak{g}$  is  $\mathfrak{g}$  in the third design is  $\mathfrak{g}$  is  $\mathfrak{g}$  in  $\mathfrak{g}$ . In the costume another round of detailing and no ishing until fell it was ready a mage 10.



▲ Blurred loior noise unifies the picture and makes the underlying colors feel more vibrant



▲ Using navy bide other and burgundy as the main colors for the costume



# Pose and background

## Learn to pose your character and add post-production effects

by Bram "Boco" Sels



The final pose is often just for presentation purposes. You've already decided what your character looks like and you've got the green light for the outfit. In other words, everything is ready to go into production and will eventually start its new life in the game world. A lot of studios do, however, still prefer to have a nicely shaded mood painting of the character as well, it combines all the elements and gives them a nice image to use for promotion. Preliminary sketches. and designs like the ones from the previous chapters are great and helpful for a 3D artist to move forward with but can't be used in marketing. Hence the last step, the polished hero pose

The main difference here is that the focus lies more on how you light the scene and which mood you wish to convey In other words, your character should almost be swallowed by the environment around him. This chapter will teach you how to create fog and particle effects to do just that. By smartly using light and color you'll quickly learn how to create the illusion that your character is really standing somewhere.

#### Step 01

Warm-up 5.0 (the guick one) A good exercise to warm up with is to do some gesture studies. Look at some



Quick gesture studies with the line of action going through the middle

to They be to more are the bare minimum you need to get a readable pose. And if you decide to take them further everything you add from then on should be submissive to these simple but dynamic quidelines.

reten to the state

Also notice that one line in particular is the absolute king of lines, that's the line of allien goes right through the torso and is

Adams tre, sellene nap 1 A 30-11-41 - emember here with I you re ek an reales menney hare he ne of action should a ways be a curve. A curve indicates movement and force while straight lines quickly look stationary and boring

#### Step 02

Manneguin action

As in the previous chapter every character painting begin starts with a basic manneguir which I then detai. When I first



▲ Building the foundations for my character knees sightly bent hands ready to hold a musket

## "You can't build a house on crooked foundations If your mannequin is off, your end result will be too"

tarte "bern quick and sloppy at this stage which resulted in a lot of bood isweat tears, and abandoned if ustrations, they release that the major and they are sometimed to undate the stage of the stag

nd one I still the least of the state of the

#### Step 03

#### Translating the design

Look at how clothes fold around the knees and shoulders and try to minic those folds in your own drawing. Once you re-



▲ The mannequin dressed up and ready for a fine



▲ Volumetric fog makes the environment swallow the character







Something that is often forgotten by beginner artists is that even characters have to abide by the rules of perspective. Even though you might not see the obvious straight lines moving towards a vanishing point it doesn't mean that perspective doesn't apply.

Think about every body part as a cylinder and try to figure out how it's oriented. It's a good idea to draw a horizon line on a separate layer as it helps you put your shapes into the context of perspective. In our case, the most obvious cylinders are in the boots, look at how they are below the horizon line (image 04) which means we see the top of them. Knowing this will help you to visually calculate how the boots should appear around the leg.

Dragging and dropping a layer on the Create New Layer button at the bottom of the Layers palette quickly generates duplicate layers and keeps a backup hidden underneath your new one. It is a good idea to keep backup layers so you can always go back a few steps if needed.

# Step 05

The fing mass

For the final image I decide to mask every element of the outfit on a separate layer "Waistcoet", "Skin", "Coat", "Paints & Jacket" and "Junk" for things like the musket and boots (see image 05). Keeping elements on separate tayers gives you freedom to fluently paint on the layers below and you can quickly use the Burn tool to darken the transitions between different pieces of clothing without affecting what's on top

I had decided , wanted to create a dramalically backlit scene so as a first step towards this the Light layer above the layer stack is an Overlay layer that brightens the top of the image

#### Step 06

A trap I ve fallen into a lot before is detailing the face just as much as the rest of the body marking the place of the eyes the tip of the nose and the line of the mouth without worrying about the rest of it. That way a lot of subtle information goes out the window and these gaps need to be made up later on it feel it is much better to zoom in a bit and really plan the portrait out in advance. It is more manageable when you have a very specific face in mind, and it will save you a lot of time rater on.



▲ The Color Balance adjustment layer an easy way to unify the colors in your painting



#### Come by the lighting

wanted to create a more dramatic and foreboding environment so I had to change the lighting scheme somewhat. To get that dramatic vibe I increase the back light and moved in some fog to disconnect him from the background.

To paint fog. I create a brush from a cloud photo/texture. Do this by opening a cloud photo (it can be one you have taken yourself or from a fire exture site) and using the Lasso Tool select an area of the image from which you want to make the brush. Right circle the selection and select Feather to about 20 pixels. This biurs the edges. Then copy and paste onto a new document.

We now want to desaturate the cloud go to Adjustment in Desaturate (Shift+Ctrit)—Add a Levels adjustment tayer and move the stiders until you end up with a blacked out background. Next add an Invert adjustment ayer (Layer invert) You should be left with a nicely defined cloud so choose Edit in Define Brush and you now have a ready-to-use brush.

Returning to the figure. I blocked in the values looking closely at the images from the previous chapters to make the fina. I ustration as consistent as possible. You might be tempted to copy parts directly from your previous designs but I feel its better to just paint them again from scratch. If be more correct and you I have more control over what you re doing.

#### Step 08

#### Ciethe framatic masic

I you're creating a mood piece like this it's important to think about the color scheme. I knew that wanted it to be cool and dark to get that tense vibe across so one of the first things I did was darken the background and tone it blue. I also started toning each part of the character in its local color (the color if has under neutral light). It's important to note that do or changes when under a pioce? I light but I wanted to get the local colors as close to the original designs as possible befure worrying about the color of the light.







▲ The dust texture I created from a photo of a moldy brick wall



"Some artists just starting out may be tempted to throw over an adjustment layer at this point and call it a day, but that should only be the starting point Your lighting becomes a lot more accurate if you take the time to go back in and touch up your new colors by hand"

#### Step 09

To make your characters exist to exist as the second of th

The shadow was created with a Multiply layesee page 23) on top of that Finally I added some tog in front of the character to reacreate the it usion that he's not just a cutou but an actual person standing amidst the for-

#### Step 10

#### Pushing the mood.

At this point the character still feels with  $x_{12}$  there alse of the local colors. If feels as the path the mood and lighting have no impact or burn whatsoever and that he is it with a fifferent type of fight entirely which makes him feel disconnected from his environment. So what reeds to be done is to  $h_{16} \times h_{17} = h_{17} + h_{17} = h_{17} + h_{17} = h_{17} = h_{17} + h_{17} = h_{17} =$ 

The blue coal will become more vibrant where do lithe undercoal will mix with the brue light and turn purple, and the version and whites will become a lot colder. Some affish just starting out may be tend end to 10 million with a first light of the starting point. Your lighting the comes a lot more accurate I you take the time to go back in and touch up your new colors by hand. As you can significant image 10 shows the final version and the control of the property of the pr







# Creative workflows

Learn how to create different styles of characters in Photoshop by discovering the processes of top artists.

With the many different approaches and techniques accessible in a program as powerful and versatite as Photoshop many artists have adopted signature and unique styles. Part of growing as a digital artist is crafting a style of your own and over time you will soon refine your own techniques. To help you on the path to developing your own style, a selection of talented artists with a plethora of knowledge to share when it comes to digitally painting characters, are on hand to guide you through their creative workflow. Each artist will talk you through their complete creation from initial ideas to the technical process.—sharing their tools methods tips, and trucks, which will encourage you to find your own style.

# Desert man

## Create an evolved human designed for living in the desert

by Derek Stenning



In this chapter we'll go though the steps I usually take to create a character design for a client

The assignment for this design is to create a character that has adapted, or evolved, to live in a desert environment The design brief is pretty strict, in that even though the character has evolved the character must remain human, with two arms, two legs, and so on. This means the evolutionary changes won't be too drastic, but they will (along with equipment and costume elements) help the character cope with the desert environment

Challenges of a desert

environment

Ability to close nestries
 Smaller mouth no lies

Evolved 4idneys that

popenitals urine

Moisture trap Ground water pump Stores carried on body

Evolution

To warrant the need for these evolutionary changes, we won't be using any high-technology solutions to the challenges posed by the desert environment, we'll keep it fairly low-tech

An important thing to look out for in a brief is a scenarlo or story. When design assignments don't have a scenario aspect to them I usually make one up myself, as it is a huge factor in making design decisions - what is this character doing in the desert anyway?

My process for this assignment will be no different, so I'm going to Imagine that the

Increased mobility

when hear ave

character is some sort of scout: maybe he is tasked with patrolling the vast desert boarder areas of the society or group that he belongs to This task will require him to spend extended periods of time out in the desert alone. Even though his people have evolved to be better able to cope with this environment, the scout will have to be equipped to carry out his mission.

#### Step 01

#### Character and environment research

Lalways start my designs with a little look into the subject matter. I'm no expert in evolution or in desert environments so a little time spent learning about those major elements for this assignment could go a long way in informing my design choices for this character

I look into the challenges of living in or adapting to a desert environment. The major issues are the extremes of temperature



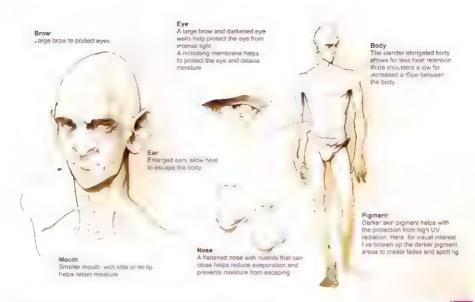
Lack of water

▲ Collecting the various design problems in this assignment and thoughts on how to address them 01

Extremes of

temperature

Staying night.



A sketch of potential evolutionary changes to adapt to a constant desert environment

(hot in the day cold at right) and a lack of water. To address the temperature issues. If have to find ways for the character to avoid and dissipate heat in the design.

If also have to find a way this character can retain or acquire water. The desert can be a hostile environment, so that will have to be reflected in the design. I take all my notes and collect them on an idea map for guick reference (image 0°).

#### Step 02

#### Image reference gathering

After taking time to think about the design spend more time gathering images that think can inspire me or introduce me to new ideas. References help to expand your thoughts on a particular idea so I search for what I think are topics related to the assignment at hand I collect images that strike me or contain something that seems to address a part of the design concept, and put them on a reference sheet (image 02).

I limit my time doing this as I could search for reference images forever. I'm only looking

for little bits or elements that contribute to the design inot for the perfect image.

"I'm keeping the body long and lean, as this will allow for less heat retention and increased heat dissipation"

#### Step 03

#### **Evalution study**

The bnef states that the character has to remain human so the first step in this design is to figure out the evolutionary changes to the body that have occurred for it to live in this desert environment.

I sketch these ideas out as I find that it moves things a little faster than painting In Photoshop I use a simple round brush with pressure sensitivity set to around 10–15% and opacity set to 50%. I lightly sketch out a few of the ideas that came to mind after putting logether the idea map. I sketch these ideas out loosely on a layer and once I m happy with them. I then lighten them up a bit on a new layer.

adding a bit of quick shading to help define them and to give them a little "pop"

As it is early in the design phase and since this material is mainly going to be used to create another design These sketches don't have to be too final or polished - they just need to communicate the ideas.

I'm keeping the body long and lean as this will allow for less heat retention and increased heat dissipation. Wider shoulders set the arms away from the body and allow for increased airflow and more heat to escape. Darker skin pigment. In mage 03 broken up into spots and fades for visual interest aids in protection from UV radiation.

On the face, a heavy brow, darker eye wells and the re-introduction of a translucent nictitating membrane protect the eyes from. UV radiation and airborne debris. Larger ears facilitate more heat loss and a smaller mouth decreases the loss of moisture. The nostrils have gained the ability to be open and shut when breathing to conserve moisture.

#### Silhouettes round 1

tove using sithoueltes when designing characters. It is a quick and easy way to rifle through various design options. Here is a quick rundown of how I create the si houeltes for this very purprise.

First—sketch out a quick pose over my body sketch from the evolution study I did earlier runder the pose on its own layer set to 15% opacity), so I I know I'm keeping within my original proportions (see image 04a).

Then I rough out some loose costume elements and ideas over the prospect (see mage 04b). Then with an angled brush set to 100% opacity [if II in the main body forms (see image 04c).

Once the body is filled in fill in the intenor of the cloak and the hood on a layer beneath the body fill (image 04d). It his so can lighten up these areas to give the sithouette more form and depth. To inhiten these areas just use the Radia Gradient in gither in gither areas furthest away see in ag-04e. The darken up the elements closer to us the front side of the body belt and the right hand (see image 04t).

The next element Liget to work on is a staff rifle that our shout uses for protection indiffer ad in traveling. This is a more complex piece so IT paint it in profile is you can see in image 04q. I use the Free Transform tool to move this element go 04h. The final

Now I repeat these steps several more times aying around with different design options. The options feature various elements to afress the temperature issues such as layered loose robes cloaks and shade providing hoods. These elements are meant to double as she ters at night. Water, aving devices such as mo sture traps and filters combine with water storage alements.

Protective footwear and armor combine with staffs to a d in traversing loose rough and hostilie terrain. Signal reflectors flags and silks aid in communication across the vast desert expanse. I verified these features on the silhouette page as points of interest discussion as if I would be going over these design applicirs with an art director (image 04).





#### Silhouettes round 2

We'll now narrow our options down by choosing our favorite designs and modifying them with the addition of new ideas or elements from other options presented in the first round. In a production environment this would be done using feedback from the art director but here I let my own thoughts and preferences guide the process.

To put these together you can cut up the sinhouettes using a selection tool such as the Lasso, and mash elements together. Alternatively you can paint elements over the silhouettes from the other existing silhouette options or new ideas that come to mind.

My first selection is option 7 from the silhouettes in image 04; as I really like the simplicity of it and it seems to communicate the desert scout therne to me. But I really like the signal silk from option 5 so I paint in a similar version and also add the signal reflector to his staff to ad in his scout role also paint in water collection bladders from option 5 along his sides to give him some more water retaining creation ability.

My second choice for further study is option 1 as it also seems to sum up the character. The only additions I make to him are extending the armor elements and adding some armor to his right arm as in option 4 but in a much more restrained fashion.



Revising and combining silhouette design options

05

06a



A Sketching details over the silhouette

#### Grayscale rendering

The next step is to take these two designs further—to block out the interior costume design elements to see how they work. This is done in grayscale as this can be a faster way to render up a character as you don't have to worry about color—you can just focus on the costume/body elements and values.

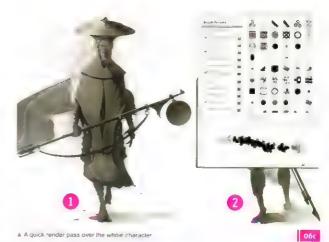
To get started on the grayscale rendering—first sketch out some intenor elements on a layer over the silhouette to guide the painting (image 06a,

The lighting will be coming down from the upper left. To help indicate this and to get the rendering started I take a mid-gray and use the Radia Gradient fool across the upper left side of the character (image 06b).

Then using an angied brush set to 50% opecity and with pressure sensitivity on, I do a quick rendering pass over the whole character defining the major forms and keeping lighting and materials in mind (image 06c). I also use a cloud-like brush and on a separate layer fill in behind the character. This will aid tater in rendering

I now start rendering up individual elements (image 06d). The headdress is a major piece so I start with that An important thing to keep in mind while rendering is the material of the object you re painting. This will affect how the light is absorbed reflected or plays across the surface. The outer shell is a worn metal so it will be well used but it will also reflect more light than the dark wrapping around the character's arms. I start by giving it a little texture to indicate wear by painting in some variance and marking with a couple of abstract shape brushes.

Then with the round brush I paint in the panel out lines image 06e on next page; I keep these on a new ayer above the main painting ayer so continue to paint in the 19th righting and texture information without obscuring these out lines. As I said while this is older more worn metal it should still be reflective, so I decide to paint in more.







ontrast punch up the highlights and add some panel deta, mage 06fr I carry out a fina detail pass adding more highlights the cut mes a few more tertiary elements + 1 t of reflected right from the environment ( Tive the headdress more form, mage 1

then repeat this process across the rest if the character keeping my mind on por !of interest and materials. These areni Final telights solonly spendit me on areas that communicate unique aspects, like the headdress staff moisture trap and same silk on this character. The rest can be ddressed ater fithis option is selected

Image 06i shows the two options at the end of this process. The first design focuses more on softer materials like layered loosrobes the wraps and the seal of the Seems like a traveler and (A) mysterious with his hear to sill face obscured by the mosture Ir i

The second option explores my idea of louvered clothing. These garments can open up to a low the passage of air and to allow more heat to escape, and can then be diosed up for warmth. This character also seems more aggressivi because of his armor and how the musket has nor hing stated of this staff



Painting the panel cuts in



▲ Adding cont ast to suggest leftective material



128







▲ I repeat the process over the whole character





▲ The result after grayscale rendering was used to further explore design options

06i



#### Triad color scheme

A triad color scheme uses colors that are evenly spaced around the color wheel Triadic color schemes tend to be bold even if you use subdued versions of your colors

It is best to let one color dominate and use other two colors as secondary/accent colors



#### A The triad color scheme



▲ Set the blending mode to Overlay and fill the layer with red

2 07d

#### Step 07

#### Rough color compositions

After the characters have been blocked out in grayscale, the next step in this exploration is to add some color to help us evaluate the designs. Color is important, and using an Overlay layer in Photoshop is a great way to quickly add color to your rough work. I'll explore a couple of different color schemes across the two designs and judge the results

On the first character, I'm going to use a primary triad scheme. Triad schemes use three colors that are evenly spaced around the color wheel (image 07a). This method creates color schemes that are quite bold, even when using subdued hues, as I tend to do. As I want the heat to come through on these characters, I'm going to use red as my anchor color with yellow and blue backing it up

Once we have our color scheme sorted I create a new layer set and change the blending mode of the set to Overlay (image 07b) This will allow me to use sort, and change multiple layers for different colors over the grayscale image. I want the hot temperature to come through on these

▲ I tweak and balance out the colors

so on a new layer within the layer set I fil in a red color over the entire character

I then go over the character painting in the different colors for the different elements I create new layers as needed for the different elements. This just makes it easier



Create a new layer under the character and paint a background.

07e





▲ Levels adjustment layer to after contrast



■ Wash the character with a warm grange 07h

to modify and change the colors as you go For the painting I'm just using an angled brush at 100% opacity (image 07c)

When the major elements are all filled n I spend some time tweaking and balancing the colors (image 07d). For this I often pick a new color and paint over the specific layer but I also sometimes use the Hue Saturation or Levels adjustment panel and tweak the existing color until I find something that works

After the colors are where I want them I create a new layer under the character and paint in a simple background for the character to rest on (image 07e). This was painted with a cloud-like brush and a texture brush to give it an abstract random feel. This background helps the "pop" of the page and will aid in the detail pass

I now do a quick detail pass on the character. On a new layer on the top of the ayer stack using an angled brush with pressure sensitivity on and set to 50% opacity. I go over the character adding secondary details (image 07f). I also paint in some reflected lighting using the colors from the background to give the character more volume and depth. As this isn't a final design, you don't have to go too far with this detail pass, just get the image to a point at which the elements are reading and you are comfortable presenting it

, then select the character and create a Levels adjustment layer. I tweak the levels punching up the contrast by increasing the lights and darks (image 07g)

Finally in order to warm it up a little I select the character and then on a separate layer I fill my selection with a warm lighter-toned orange t grab off the character's shadow (image 07h). I then set the blending mode of the layer to Soft Light As the fill color is lighter than 50% gray this will lighten up the whole image

and wash it in the subtle warmth of the fill color I pull the opacity back to around 40 so we are left with a warm hazy fee kind of like you would expect in a desert!

I repeat this process on the second character, this time using an analogous color scheme (a color scheme that uses colors that are next to each other on the color wheel see the right-hand figure in image 07i) I start with the same red base, but move into violets and indigo as my secondary colors, and add a bit of orange for an accent



▲ Exploring possible color options

200

#### Creating the final design

After weighing-up the two designs, I decide to move forward with the first character option. This version seems to hit more of the design criteria, the loose, layered robes and the large headdress (which I m imagining will fold out into a shelter) help to block out heat radiation, the moisture trap that collects moisture in the water bladders, helps with water retention, the footwear increases the sole surface area, and the staff will aid in traversing the loose, rough terrain The signal staff and the signal silk (one of several carried) help this scout communicate across the desert expanse as well

I m also moving forward with this design because it has more emotional impact and hits on the solitary somewhat mysterious nature of the desert scout

Now that I ve made my choice, I refine the character a little more to bring it up to a presentation level. I start by taking the color composition and merging it all logether except for the background Then I make a few larger changes

First I adjust the position of the signal staff bringing the heavier front end down. This looks more natural given the weight of the signal and of the staff. Using the Polygonal Lasso, I grab the staff and free transform it into a downward facing position





3 Signal staff - reflector mirror

The signal staff has a mirror with a hinged swive cover. This mirror is used to reflect sunlight to create communication signals to other scouts. The swiver cover can be used to interrupt the reflected light to create signal natiems or Morse-code-like messages

1 Supplies

Belt attaches here



The large headdress unfolds into a small single-person shalter. This sheller is used to avoid the hottest periods of the day, to bed down for the night, or to provide protection from the desert storms. The staff is separated in two, with the bottom portion extending to become the main support for this sheller



▲ Detail sketches are a quick and easy way to flesh out elements of the design

09

Second I erase the large signal silk to the left of the character. I want to give the image more depth, so on a new layer under the character paint in a new a new signal silk that extends back into the background

Now II work on tightening things up I'll create a new layer on top of the layer stack and using the angled brush (again set to 50% opacity) I il paint in more lighting information and add secondary details such as the little weights that keep the robes in place and the staff details. During this process ralso rework the background with the addition of a patch of dry cracked ground

#### Step 09 Additional design details

Now that the final design is done [1] create a few sketches of additional design details. These quick sketches will help flesh out elements of the character design that don't come through in the image from the previous step and communicate additional design ideas

If you look at image 09, these include a detail of the supply pack carned by our scout, a detail showing how the large headdress folds out into a shelter to protect the character

from the environment (whether from the heat of day the cold of night, or a desert storm) and finally a detail of the signal reflector mirror that is encased on the end of the staff

#### Step 10

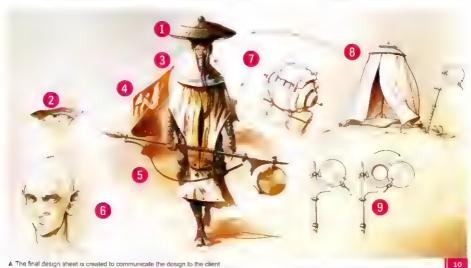
#### Compiling the design sheet

The last thing to do is to compile the design materials onto a single page. This will serve as our design sheet that would be used to present the final desion to the client. I take the final design render the additional design details, and since the facial area is half covered by the mask of the moisture trap I include the head elements from the evolution study as well, and I arrange all the images on a page with the relevant notes (image 10)

At this point if there are no revisions. needed the design is finished. If this design were to be approved, we would then move forward with creating a turnaround and potentially more detailed images so other artists could start to implement the design into the final product

1 Body the slender elongated body allows for less heat retention. Wide shoulders allow for increased airflow around the body

- 2. Eye. a large brow and darkened eyewe l help protect the eye from intense light
- 3 Moisture trap captures mo sture from breath, funnels this down to the water bladder (worn around back of tights)
- 4 Signal silk: used to convey messages to other scouts
- 5 Bladders: water biadders are slung around the back of the lower robes Filled before missions and can be refided at supply stations
- 6. Head, numerous other features on the head contribute to desert adaptation, ear enlarged ears allow heat to escape mouth - the small mouth helps retain mo sture, nose - nostrils that open and shut when breathing prevent moisture from escaping
- 7 Supplies carried on the back
- 8 Shelter the large headdress unfolds into a small single-person she ter
- 9 Signal staff reflector mirror: this mirror is used to create communication signals to other acouts



# Sci-fi female

# Design and paint a character surviving in a low-gravity environment

by Charlie Bowater



My starting point for this character is the theme of "low gravity"; the idea that the character must have adapted to survive in that particular aspect of her environment My first priority is to find out what the effects of low gravity on the human body actually are Although there's no way to know what the effects would be long term, common side effects for astronauts are loss of body mass and bone density nasal congestion, muscle atrophy motion sickness, sleep disturbance and bloating due to blood pooling in the center of the body. Sounds great!

Those are just a few starting points that could spark an idea for character design Next I want to think about what I actually want to paint. What kind of colors and designs do I have in mind? I really like the idea of taking some color inspiration from space itself a very deep, dark background and some vibrant splashes of pink and blue to highlight the character I also really like the idea of a bit of white armor, à la storm trooper, to add a nice contrast to the dark background

It helps to throw together a mood board or collection of references to get the ball rolling! None of them have to be anything that you have to stick to, but they can really help with inspiration and remind you of what you originally had in mind

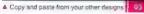






▲ I have a few ideas in mind in relation to low gravity, I'm having fun and seeing what works







▲ I'm opting for a blue monochromatic color palette but then contrasting it with a vivid pop of pink

#### Starting with a sketch

To get started with my sketches I open up a new carvas usual y around 3500 × 4900 pixeis. I like to work on fairly high resolution carvases, as they re large enough to accommodate all of the detail. If add after on my carvas also needs to be arge enough to be printed eventually.

On a new layer I start to block out some very rough si houettes of different character designs. I like working in si houettes and rough skelches to start with. I can be very detail focused so ti's good for me to try to not worry about details too much at the start and just focus on the overal shape of the character. I still try to include character traits related to the effects of low gray by on the human body though a larger torso due to blood in the body pooling around the core in particular.

#### Step 02

#### Iteration, iteration, iteration

Once you've decided on a particular character shape that you like the most you can move forward and experiment with some variations on the design The reason I chose to move forward with the silhouette highlighted in image 02 is that it's the one that personally liked the best it has a simple and very readable pose so you can inderstand the shape and design of the character it also included the low gray ty character trait of a larger core. At this stage, we can experiment with the finer detals of the design such as costumes armor harstyles and so on, until we reach a design were happy with

#### Step 03

#### Deciding on the initial design

As you can see we have my initial chosen design in image 03 like the look of this outfit and it hits on some of the elements liwant to include it is form-fitting and a little structured.

I do like certain aspects of the other outfits as well but im happy to go ahead with this as my initial design I can a ways add further elements to her design as I work my way through the painting. Sometimes impretly set on the initial idea and other times the idea progresses throughout the painting. I think either way can work well depending on the purpose of the character.

#### Step 04

#### Starting the color work

Now that I have my chosen design I can start adding coar? I'm going for a very bright high-contrast color scheme, as I lit nk that will work well with the sci-fi thems. You can use any color scheme you like, but try and use colors that work well with each other color wheels are great for seeing which colors complement each other (see step 09).

I add dark blue on a new layer underneath my character and then add a mid-tone skin color to my character For her skin I choose a mid-warm beige tone that isn I too light or dark — I just want a starting point that I can then develop further with shadows and highlights in different tones. Always remember that the base color sizely to change a lot when you add further layers of color throughout the process so there's lots of room for tweaking these colors along the way if you aren't happy.

Once I in happy with my own base colors I select both the character layer and any color layers re ating to the character and merge them together by selecting Merge Layers in the Layer menu (Layer > Merge Layers)



Choosing a light source

# Step 06

Don't forget to flip



# \* PRO TI

# Step 07

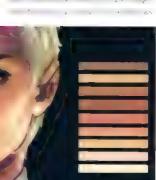
A little b telf dett

Step 08
Color transitions



▲ Keep y at this enter other when y digital tells





A Keer, color swallhes visible soly with New; lefelling back to those upons

Caron theory

I want to briefly touch on the subject of color theory which is a whole kettle of fish in itself really! I velgore for a fairly monochromatic color theme for this Tustration is you can see in mage 04 which is centered on blue. If kept everything in the image blue however it would rook very boring

Adding a splash of vibrant plank in the thair and accents on heris, at really helps to add some contrast to the mage land in the ingle a small an ount means it list complete its their blue theme and doesn't over power it.

If you can't quite deduce what role is to use take a dust at any color whee to see which colors work well together. But and orange are technically the opposites that would work the best together but pick is retly less to change and so still components the town in a Gornaty opposite opins work well but is, so the chord whee as a given there's always at till copy for one for some affait is colors were as a given there's always at till copy for some affait.

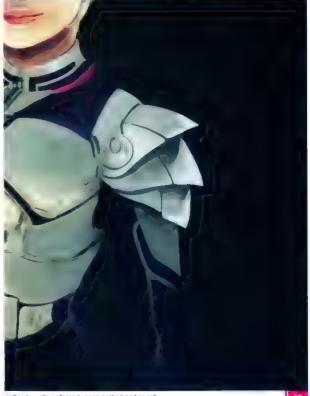
#### Step 10

Starting in the irm

Now that the than cler's in full swing and I he page you to the fare and the progression of the incritements time to start in the armor. We I all tarmor but want it in somewhere between pardiary and armor perhaps the kind of stricting and armor perhaps the kind of stricting and proposed for something a bit nore or fill power though



I you're unsure what colors contrast or complement each other well-crack out a color wheel



▲ Create matte surfaces by keeping the biending soft

#### Lighting and form

At this stage I want to build up the form of the armor and lighting as I go In order to do this I take my regular brush as usua, and much in the same way that I added lighting to the character's face I paint in the areas where the light will hit the armor

You can block this in quite roughly if needed but I also take some time to softly blend the transitions between the light and shadow. Like in step 05, you can always lower the opacity of your brush if you struggle with blending, this way you can add strokes of paint very softly and gradually so blending should be easier.

As mentioned in step 10. I want her armor to appear quite malte and in order to achieve that texture. I avoid adding any shine to the armor. To understand where the light is going to hit the armor. I just think about the areas of her body that protrude further outward, and will catch the light under her his and bust, for example.

#### Step 12

A little more ighting and text ire. Up until now I haven t really paid much attention to the lower half of the character's body so I spend a bill of time building up the form and lighting on her legs. Her legs are generally going to be a lighter color than the rest of her as they re closest to the light source.

So, with a lighter shade of her suit. I add some shape to her legs. It helps to think of them as a cylindrical shape when it comes to adding form. They are brightest in the center of the leg along the shin and then gradually transition into a darker shade towards the sides of her legs. You can also add a bright streak of do or as a bounce light on the sides to contrast the darker shade and to clearly define the silhouette of the legs.

To add texture, you can either directly reference photographs of texture (fabric for her outfit as an example) or lay it over the area you want to place it and experiment with different layer options and opacity levels.



Use soft transitions between highlights and shadows to create form without adding shine

Overlay usually works best in a handy way to increase the brightness and contrast is to idd in some highlights on an Overlay rayer along with setting that layer to a clipping in ask (page 21) – but try a few methods and see which lives you'll blest result.

Another option is to leave out photographic textures and experiment with different brushes and paintstrokes to emulate the texture instead. Even just a few scratchy marks can read as a worn texture when zoomed aut.



▲ Add in some highlights on an Overlay tayer and set that layer to a clipping mask

12



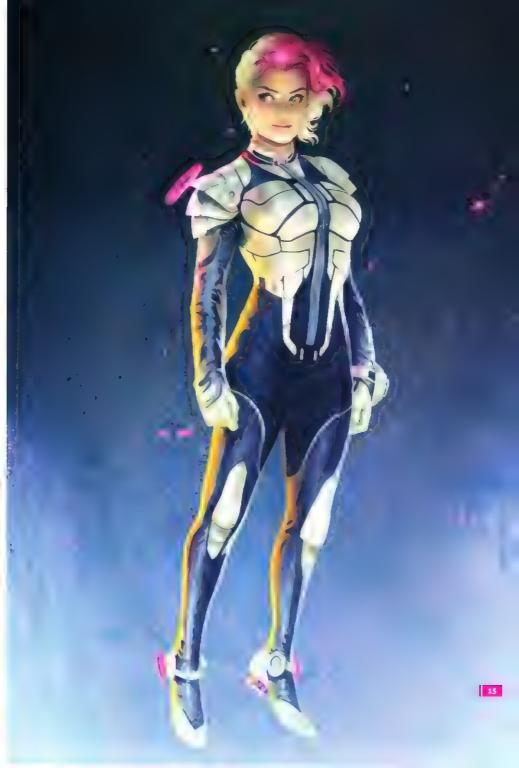
Step 15



Art is supposed to be fun so if you want to add something ridiculous then do 1.

·

Step 14



# Medieval jester

## Concept and illustrate a medieval jester

by Ahmed Aldoori

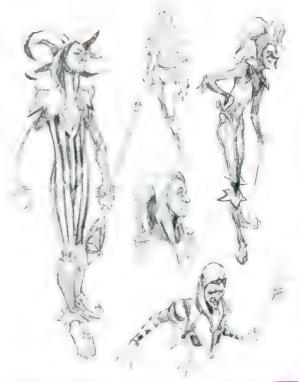


Research is an important foundation for creativity, so I find myself looking at old medieval paintings as a start. Sure, I could just copy a Jester's costume directly from reference and call it done, but that would be boring; we as artists have the opportunity to take something and put an interesting spin on it to fit a character. In this chapter we will go from the development of loose pencil drawings into a more refined design at the end

"Even though they won't all make it to the final illustration, it's beneficial to feel that the character has emotion while you're designing the costume"

It's important to get a feel for the character's emotions. I want this jester to be a sinister type who despises everyone. He's a court fool, after all. Conveying this idea is supported by sketching facial expressions within the design process. Even though they won't all make it to the final illustration, it's beneficial to feel that the character has emotion while you're designing the costume. Otherwise it will feel like you're designing a costume tailored for a blank mannegum.

An understanding of anatomy is a required skill for this type of design



▲ I don't render out bny details early on because loose pencil work can indicate many possibilities 01



A few of the many sketches i did in my sketchbook to get a good understanding of a jester



A I drew these as sma. Thumbhails in order to avoid getting caught up in details. The gesture of the jester is the important factor in this phase

Without knowing how the human body works, a cool-looking costume in a still image could end up completely useless when it comes to being animated for human movement, Photoshop knowledge is also important for this process. I will be using layers, levels, and blending options to help me with my design

"A typical T-pose is an option but I want to make this look interesting, so I go with the more pensive stance. It's important to flush out a lot of different pose possibilities at this stage in the process"

#### Step 01

#### Exploration sketch phase

You'll find a variety of different jester designs from history. There are extravagant costumes that include all kinds of silk and silver bells, and there are simpler costumes that appear to be made out of rags

In the sketches you can see in image 01 I am figuring out different hat designs as well as fabric configurations. The expressions on the faces help me solidify the jester as a real character.

Props are important too, a lot of the jesters had some kind of rod with a mask on it representing a smaller version of them, to add to the whimsical entertainment they provide for royalty

#### Step 02

## More pencil drawing

In addition to using expressions to help solidify the character. The poses are important as well. It helps to think about the character in motion in this case the jester could be performing in front of his audience

In image 02 you can see that I ve chosen to give him an angry look in order to indicate the resentment he holds towards. everyone. The evil smile in the top right can really sell that idea of him being

truly sinister it's universally understood Stay away from anyone that looks at you like that! On the bottom right I have made a smaller version of him

#### Step 03

#### Pose specific to the final image Until step 07 we only need the basic

Brush tool with pen opacity turned on

The poses you can see in image 03 have been drawn with the final image. in mind. Whatever the final illustration. is it must showcase the costume completely for the art director or 3D modeler to understand its concept

Keeping this in mind I do my best to avoid poses that cover up important parts of the design. A typica. Thoose is an option but I want to make this look nteresting so I go with the more pensive stance (marked with a red star). It's important to flush out a lot of different pose possibilities at this stage in the process









Still fairly loose here. It s not necessary to do a perfect line drawing

#### Pose refinement phase

Hower the opacity of the thumbhail from step 03 and make a new layer on top to draw another pass of the design. I take the creepy face I drew earlier and use it as reference for this drawn at a different angle (image 04)

For the masked rod I draw a geometrical and symmetrical frame to act as a placeho der for the mask to be drawn in perspective It's better to lay down a foundation to help guide your drawing rather than trying to draw it without a framework.

#### Step 05

#### Refinement round two

I do the previous step again on top of the first drawing pass. This allows for another layer of precise detail. The main difference you can see in image 05 is form indication

The jester hal is a complex object so it requires some planning. I have the hat shape drawn out from before, the form was slightly suggested but here the wire frame lines help make a clear statement of its volume. On the floor you'll see a grid sketched beneath him. to indicate perspective. This will ground your figure so that he seems to be standing on actual ground rather than floating in the air

Once again this pass will slightly fade away as the next drawing pass comes into play. This is a building process, one step lays the foundation for the next

#### Step 06

#### A bit of tone and value

Again. The opacity of the previous step, is lowered. This time I draw in the trianquiar fill it in with value. The value breakus will help you control the focal point

It's important to be smart with value placement. If the darks are too evenly distributed you will lose movement and focus notice in image 05 that I ve drawn the mask on the side. This was easier to draw on a flat view, which will be put in place using the Free Transform toot in the next step

#### Step 07

#### Transform into perspective

Up until now the only Photoshop tools I have used are the basic brush and lavers In this step I use the Free Transform too to place the mask onto the rod in perspective

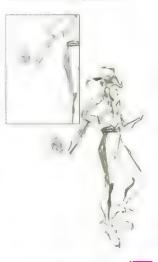
Press Ctrl+T and a bounding box will appear, you can hold Ctrl and click and drag the corners into any perspective Once you are happy with the piacement you can double-click within the box or hit Enter to finalize the transformation

This is very useful for placing things into perspective. The Free Transform tool is proportions of your character. You can use it to squash or stretch him to your ilking

#### Step 08

#### Masking the jester

Making a mask for your design will make painting t a lot easier. The purpose of this is to make a sharp schouette



▲ Using the Free Transform too



▲ Using clipping masks might be confusing at first, but once you get the hang, if their you will use them a it

08

let the line drawing and to keep it se a clipping mask

bove the silhouette to get the line yers panel. You can create multiple

# Step 09

Color thumbnail exploration

- warm and cool

The first row of three you can see in image

jester color schemes contain red .... and greens. I want to make an interest

Step 10 Blocking in colors



▲ Even if I choose a color scheme, it can be easily shifted using the HuerSaturation menu to get more variations. This is shown in step 15

The Jeste is face is also notifs own layer to allow me to shift the colors of everything else very easily without messing with his face.



a Using this method is fast and easy you won I have to think about specific color accuracy the right value is already there.

Always pay attention to clothes and the many ways they wrinkle in real life. It comes in handy when you're drawing or painting clothing.

round brush to block in the colors in the clipping mask. It might be helpful at first to keep each color set on its own layer blues on one fayer it ye lows on another and so on

At this point there is no need to model or render the forms. Flat coloring will set the local color for the design, which will then be manipulated using Levels adjustments. I recommend avoiding fancy texture brushes when doing this

## Step 11

#### Lighting and form

Here's a secret method to he'p you move forward very quickly by creating volume and form. Simply duplicate your flat ib ocked-in bits of color and use Levels adjustments to make them 50% darker. This will make at the shadows equally dark setting a unified value range for all the darks. You then simply erase out where you want I ght to go. I use the Arbrush as an Eraser to shimight onto the costume. Instead of using the Eraser you can also use a Layer mask instead at 78. Bit in meta-insteads with the

# Step 12

Clothing indication and bounce light Clothing has thickness, and should be portrayed as such. Once again I use a basit



 Painting some more of the costume's design elements



a seam I indicate a lip where the slitching might be. Wrinkles are indicated slightly as well. The purpose of this is to avoid having a last in it is a personner.

Bounce light will assist you in showing the form of the clothing as well. I use the Airbrush paint a soft light coming from below. This also helps indicate the cloth similaria which in this case has a silky reflectivity.

# Step 13

#### Costume refinement and details

now paint some more of the costume's design elements. Jest- is a ways have interesting patterns and shapes. In ghight the triangular design language on the hat by outlining the dark shapes with a ye wither. This could end up be not some kind of embroidery or just flat color depending on the level of detail that the video game allows:

start painting the face, which also has an ingular language to flow with the rest of the design. I don't want to over paint the face since the inore important factor for this items to be turned the ester is wearing.

There is still no immediate need for any texture brushes or texture overlays. The rous in brus in look will suffice as  $x_1, x_2, x_3, x_4, x_5, x_5$  in sketch.

### Step 14

#### Shadows in perspective

Here is a neat trick that will make your character seem placed in an actual space. Since I already have the silhouette cut out from the early steps it will suffice as a sem accurate shadow shape. Simply duplicate the silhouette and use Free Transform. Ctrl+Tj to squash everything down beneath the character (top part of image 14).

You can then paint in a solid gray color onto the whole thing using the same ct,pp ng mask methods as in step 08. You can ergae away any parts that do not make sense such as the shadow of his legisticking out. You can also bur the shadow using Filter > Gaussian Blur to have a softer lighting setup for your character , bottom part of image 14).

Step 15
Three paintings in one

r / \_ \_ Tox

Since we have the face separate from the costume, we can turn that layer off and The costume to the highest that the highest

15), so you call set if if it is to change if you want in yim tiers to set if it is not be any in the property.

for the even exert the right



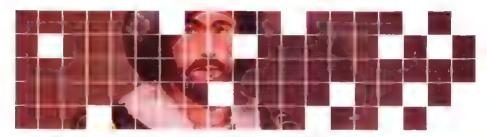
▲ This color shifting method we work on anything, from props to characters to landscapes. There is no limit to what you can do!



# Merchant trader

Use custom brushes to add finer details to your character's costume

by Markus Lovadina



Let's start with a merchant trader character description, based on a few hundred years ago, this is someone who has come from a distant foreign country. and settled in the West. He now runs a business from a busy trading port. He is a confident man unscrupulous and calculating when it comes to money He's intelligent and sharp-witted with an eye for detail and a nose for profit His physique displays his success and conveys his taste for rich food and wine which he has in plentiful supply

The first thing that came to my mind was the 'good old masters' Referring to the old painting masters is always a great starting point. If you observe some of the old mages you can learn a lot lespecially n terms of brushstrokes. I ght ng. co.ors and composit on. This time, decided to research some Dutch painters, who have a great sense for color and lighting (as many others have too! I wanted to go for a sort of painterly feet. You can find great reference images by scarching the web

this very important to start by searching for references inot only for the design but to get a fee for the specific theme. The more I know regarding materials patterns fabrics and so on the easier the design and painting process will be After looking at a range of references



▲ Laying down the first coicre

and reading articles regarding costumes, I was ready to fire up Photoshop.

"If you're afraid of painting on a blank white canvas, start with the background"

#### Step 01

### Background

Par eighter a kgrund is a und way act a better fuel by fir where the burn to so the placed both, set the nor in

the enure image of your eafrad of painting on a blank white harvas start with the background. The painted background notifiation be used for showing the noion themalistic because with A brown tone gives the feet of in bid carvas and will contribute to the invertal kinds want to achieve.

Laying drawn the first colors can be hard but xies, in our 5 th 4 years and ways than a form you as 2 Cotor Bararies see step to the interfer or one of ormation.

Don't be alraid of playing around until you're happy with the first look

#### Step 02

# FILE OF F

I paint the background with a simple round textured brush (image 02a) set to Transparency mode Texture and Shape Dynamic (image 02b). I mostly use a huge brush size and keep the strokes quite loose. The main focus for now should be the overall color theme and the composition.





▲ The brush texture settings

# FIC TIP







between warm and cold tongs



▲ Keer 1 the sith certer hose allows you 105 n licus on the Liveral shape



▲ Laying , the first = k blocks defines the separate elections

06a



The colors give the initial idea of the deal of t

Step 03 Cradi, t



Step 04 Das on to the wa. pattern



As there is the second of the

# Step 05

# Resign character shaps

f ....(x<sub>1</sub>, x<sub>2</sub>, y<sub>3</sub>) .... y ....



# Step 06

fret, y p y

# "Study the way each material reflects the light or absorbs it"

 "Adding the first details is great fun, but you should still keep in mind what they are for showing the characteristics of the character"

# Step 07

#### Defin is the face

y > 9 - c

f to the y 1 c 113 n 1

### Step 08

### First distance

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#### Step 10

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## Step 11

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# Step 12

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# Step 13

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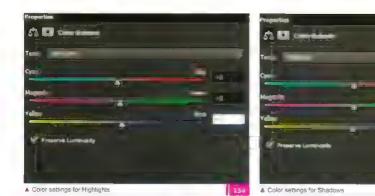
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# Step 15

## Final touches

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# **Quick tips**

# Discover how to create common elements used in character design.

Characters are made up of many different elements that all play a role in the believability of a design. The visual credibility of these details can influence the success and quality of your paintings, which can cause problems when you are trying to paint something that you have never painted before. So, as a beginner artist, it is useful and important to practice the art of recreating convincing details and textures. To help you develop these skills, this section will offer a mynad of approaches and tips for creating common details and textures such as skiin hair and lace, all of which will help to improve your workflow.

# **Curly hair**

#### by Bram "Boco" Sels

#### 01 Line drawing

Curly hair is mostly characterized by tocks of hair twirting and interlocking with each other It is important to lay down an outline for each lock. In the example a lock of hair spirals down and gets pointier towards the end. To keep your curls organic make sure each turn follows the same direction as the last.

#### 02 Masking the form

Create a second layer underneath the line drawing and use a regular round brush to brock in the shape of the hair with a solid color. Typically curly hair has areas of white space around the edges so try to create your locks so you can see the background (or skin) through the gaps.

# O3 Painting the highlights and shadows

Create a new layer on top of the line drawing and determine where the highlights are with a color slightly lighter than the base. Wherever a curl is pointed towards the light (see arrow) a highlight should be there. On the other side of the curl will be a shadow so with a slightly darker color than the base paint a shadow for each highlight. Locks that are behind other locks will be darker as well.

#### 04 More curts!

Once the larger curts are blocked in select a highlight color and start adding smaller curts behind and on top. Depending on how curty you want your hair to be, you can keep on going. To make bigger curts "pop" pick a color even lighter than the highlights and add little specular highlights to the top parts.

### 05 Details and overlays

Use a smaller brush to add extra small hars that move through the maze of curls Work from large to small, so keep these detais until the very end. Make your colors shine by adding an extra Overlay layer and go over the highlights with a big soft brush and your highlight color.











# **Shading hair**

#### by Tim Löchner

#### 01 Blocking out the hair shan

Use the freehand Lasso Tool and make a selection based on your drawing. Now use the Paint Bucket Tool and fill the selection with a color on a new layer. Now, you can use the shape like a stencil/mask if you turn on the Lock transparent pixes in the upper area of you tayers panel.

#### 02 Base cotor

Use a soft round brush to add the basic shadows and highlight onto your layer with the pixel mask. The highlight can be painted with a simple honzonta thick and soft line. The bright rim light gives the shape a nice outline.

#### 03 Defining section

With a hard round brush you now define smaller sections using your light and shadow colors. Use smaller strokes to add smaller and brighter highlights into the rough high line. Often a beginner is mistake is to think only about the overall hair texture. Thinking in bigger forms and sections will help you to create a better result.

#### 04 Detailing

Now you can start thinking about the smaller detals and the texture of the hair. Use a smaller and sharper brush to paint some hair texture and detall into the midtones. You can do the same to high ght areas but in smaller areas than the midtones. To add more depth and realism to the hair add smaller detals and strands to it. Use a very thin and sharp brush and draw some bright hair lines here and there. Do the same with dark lines.

#### 05 Natal 1-11-1

Use a brush with hard edges and the Opacity Litter set on Pen Pressure to make the hard edges of the hair ends fade out naturally Also paint some single hair tips here and there. This breaks up the hard edges makes the hair look fluffler and gives a hirt of the structure.













# Short hair

#### by Carlos Cabrera

#### **01** Silhouette

Start with a silhouette to paint the bulky hair up to 1 the Lasso Tool draw the silhouette and use the Bucket foot to fill I with a gray color.

#### 02 Volume and contrast

Selent the Lasso Tool to create a hair shape bon. Pick a darker gray and with the Gradient tool apply from top to bottom. Create another small selection where the tiplicity will be and make another Gradient pass with a brighter gray color remember to make smaller selections in each step.

#### 03 Add detail to the hair

With a small brush at 2 pixes pixe a arker gray and start to paint the locks of hair with furved brushstrokes. Start with the tarkest hairs and move to the brighter ones. This way your hair will now more realistic. Pixia smaller brush at 1-2 pixels and paint tory lines in the middle section of your hair cleave the perfect curved it was for the end.

# 04 Rough up your lines

Rearsticher has a lot of imperfections with different shapes and lines even when it is combed. So deselect any selection you have and with the Smudge foor staff to participate the fact the hair Set the Smudge foor to 90% and journay on each brushistrose.

#### 05 Color the hair

Now we have our base values in gray merge all the layers (Layer > Merge Down, and add a new layer in Overlay mode Pick the hase co or of the hair and select an arbrush or soft brush at 40 pixes with a cw opacity of 20%. Gently paint over the hair Change the size of the brush when painting close to the edge or make a quick so ection. Now pick a brighter color, always move or the Joint wheely appropriate the high into one of the color wheely agent To finish merge at the layers and use the Dodge too to increase the brightness of the hair.



# Straight hair

by Bram "Boco" Sels

#### 01 Laying down the shape

#### 02 Adding shadows

A detail to ythe service of the serv

## 03 Adding highlights

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# 04 Boosting and refining

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# 05 Stray hairs

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# Painting fringes

# by Bram "Boco" Sels

#### 01 Laving down the shape-

Just like with the straight hair (see straight hair quick tip on page 165) its important to get the shape of the hairstyle just right. Fringe hair has a lot of locks that move over and under each other but despite that the hair will still follow in a general direction which is obviously) down. When painting the bigger shape make sure you give it a lot of pointy ends so it looks natura-

#### 02 Adding shadows and highlights

using a multi-lined brush helps to quickly generate shadows and highlights where they reineeded in this case, went with a general light from the front, which results in shadows on the top of the head and behind the neck, and it used a strong back light from the right side.

### 03 Infferent locks

The most difficult part when painting it finge is understanding how the hair wraps around the head and moves over and under Iself. I think that I always helps to define it for yourself by quickly drawing some arrows on a separate layer ust to point out how the hair flows.

#### 04 Keep on highlighting

Once you know the direction of the locks think about how they overlap. Wherever a lock moves over another the top one should be high lighted, while the back one should get some shadow. Just like with the trib that har it is a good idea to use the Dodge tool to go over the bigger shape. The the foreneed and bigger locks.

# 05 Overlays and specular highlight

Finally add a new layer on too and put its blending mode to Overlay. Pick a bright bolor and with a simal sharp brush add some scratches and tiny hairs all over the haircut. These specular highlights help to make the haircut a bit more random and make tall the more convincing.











# Youthful skin

by Bram "Boco" Sels

#### 01 Base color and shape

Skip is an incode materia that gets is chance in such the measing and incode to the warms covered and elder trivially the environment of its signal feat than by creating, but the signal through the signal to the comment of the signal through the signal through

#### 02 Adding values

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### 03 Multiply

To add a tan you a less if Mustiples or alternatively a Screen Layor for in paint is contact to coake the six in taken. Other is the action in section of the six in the action in section of the six in the six

#### **04** Detailing

While looking at your reference really forus on the skin tones and the white it affects it. Keep on pushing this evalues!

#### 05 Noise and freckles

Skin has like the extremity him to be created with some server Addition in a gardayer interpreted by the ministry of the additional and cork or Filer income additional and and cork or Filer income and a power interpretable and and cork or Edit Ded to Bright Property of the Bright P











# Aged skin

#### by Romana Kendelic

#### **01** Basic shapes

Reference is the key to realistic depiction of human skin, so you can study the anatomy light, and surface texture first-hand. Block in the very basic shapes, ignoring all of the details. Squinting at the reference or even blurring it slightly in Photoshop can help with understanding the underlying structures. It is important that the anatomy is solid before you attempt detailed rendering.

## 02 Aging skin

When we age the skin grows thinner paler and translucent. It becomes dry more fragile with enlarged pores. It often develops pigmented spots rage spots. The most obvious changes are sagging skin and wrinkles. Two types of wrinkles are deep furrows and surface lines. Also in very elderly people you may notice that the face is not completely symmetrica.

#### **03** Developing

With the basic form done begin adding deep furrows on the forehead prominent indentation on the side of the nose, and fooding of the skin on the upper lid. Do not draw out the wrinkles. Try to paint the convex parts bring out the volume of the folds and creases. Treat them like you would a slightly squashed cyfinder.

### 04 Colors

For the very pale skin, stay away from black for the shadows. It will dull the colors, giving the skin a Heless, grayish appearance. Observe the wealth of hues saturated oranges in shadows pinks and magentas where the skin is particularly thin on the lower lide, even pale blues and violets to accentuate the transparency.

#### 05 Finishing touches

Deepen the furrows using hard edged brushes. Add detals like spots, pores, and fine lines. Finally paint in the fine speckled highlights for a life-like appearance.











# Healed scars

#### by Carlos Cabrera

#### 01 Choose your scar

Over a skin-colored base, make the shape of the scar. Make a selection (using the Lasso too) or paint freehand. I chose a buillet scar so I paint a circle in the middle and a cross cut on it. Pick a darker color than the base skin tone and paint inside the selection.

#### **02** Texturing the shadows

Pick an even darker color using the Color Picker. With the Polygonal Lasso tool select where the shadows will be on the scar, every stitch and skin healed will give you a lot of texture information, just simplify the shapes. With the selection made, select an airbrush or soft brush with a low opacity of 10% and paint slowly and smoothly over the selection.

# 03 Lighting the scar

Select a hard brush at 5 pixels and 50% opacity. Experiment with the basic brushes Pick a saturated skin color in this case a pale orange, and paint the opposite side of where the shadows are Remember to et some of the base skin color in the middle to emphasize the shadows.

# **04** Sometimes blur is better

Make a round selection using the Elliptical Marquee too that covers the entire scar and hold Ctrl+Shift+C then Ctrl+Shift+V to make a merged copy Now go to Filter > Blur to blend and smooth the scar repeat until it is blended together. Lower the opacity of the layer until the two images blend perfect y 50% is a good place to start.

#### **05** Texture the scar

Select a hard brush (a round hard brush is perfect for this stage, set to 70 - npacify and juck a brighter shan the highlights. Panil with short strokes over the scar. Repeat in a new layer then ower the opacify to 30. In another new layer at 50% opacify, paint with the bright skin color on the edges of the scar to create a bumpy look. Use Color Dodge to add the final touch



# **Open wounds**

### by Alex Negrea

#### 01 Line art

With a default round brush I paint the line art keeping it as simple as I can I keep in mind the volumes that are going to be rendered in the next step, so I draw the wound wrapping around them properly

# 02 Blocking in

block in the areas that need separation tater on in the process. I use a brush with Color Dynamics turned on to ach eve some sight variation in the hue, value, and saturation of the skin. To turn on Color Dynamics open the Brush engine (shortcut F5) and check the box next to Color Dynamics. Play with the sliders to see how they affect the brush that you are using. I move them just a bit to the right because I don't want a strong effect.

#### 03 Initial details

Keep the inside part of it a dark red. Most of the work is done outside the wound. You can add some highlights to the edge of the skin to suggest the thickness of it. Add ing some darker and saturated colors near it will indicate some trauma that the tissue near the wound is suffering.

### **04** Blood spatter

use a brush with Wet Edges activated in the Brush Presets panel to paint some blood stains near the edge of the wound add some more variation to the dark red inside the wound by color-picking it and using a brush set on Linear Dodge (Add) mode. To change Brush mode on the fly use the shortcut Shift-right-cock while using the Brush tool.

### 05 Highlights and extra details

Ladd some specular high-ights with a default round brush and a color near to white. Ladd some more detail with some brusing. I paint bruses by setting a brush to Mu tiply and picking saturated green blue, and yellows, and painting in the same, ayer as the skin so it blends well.









# **Tattoos**

#### by Tim Lochner

#### Olfesia i jarr

Create a new Photoshap file where you can design your taltoo just create the image whether it is a trible falteroor a colored pict in the following the whole opacity. At this point you don't have it it in it about the perspective distortion of it while being on the arm. Makes is used is on a different layer to the background.

#### 02 Placing the tattod

You can place the tattoo into your char interdocument by dragging the layer of the late. Into the workspace of your painting Place in over the arm and size at 1 your kind, snight the Transform ton (Edit - Transform Side hold down Shift to keep the proportions).

# 03 Wrapping it around the arm

For this task you need the Warp command Go to Edit > Transform > Warp Now a transformation framework is placed over your fattoo. Put the anchor points to ada, if the form of it to the roundness of the arr. You can also click and drag the cers of the ignition form your tattoo. Hit Enter after you reid one

# **04** Overlay

Now that you have put your tattoe into sha, e.yo., an simply switch its tayer mode to Overlay. Now it ariables the shading of the arm be own and pends into the painting. You might want to adjust the brightness since it might have become a bit too dark depending on the original value of the tattoo. To reserve tha you take down the layers opacity which is placed in the upper area of the Layers paine.

# 05 Mirroring

If you want to extend your tattoo you can add another ayer with the same tattoo image on it. Drag and drop your original tattoo drawing again into your document and fig. their zonta. A Edit at Transform 3.5 p. Horizonta. At that is, et now is to repeat steps 0.2, 0.4.



01









this quick tip used in a final concept, go to page 202

# Female ears and earrings

#### by Tim Löchner

#### 01 Preparations

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#### **02** Defining shapes

You will have to just clon rough delay ere wish typich up some of the forms a bit. The ear has a greetly shooth sufface on this injections is you. I see a few more highly its him.

# 03 Masking earnings

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# **04** Shading the earrings

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# 05 Additional details

You, an add and lional detalls onto the surface of the earnings to make them lick more interesting. add a yorden occir all the comers by yost creating a new layer on to, with the mode set in Overlay, and paint the colors with a sharp brish.











Mis-quich ap used in nul concept no page

# Female eyes and makeup

by Bram "Boco" Sels

# **01** The shape of the eyes

Driw the shape of the community and the eyel diversity around the eyebal and how they fit ineally into the eye socket. This simportate is useful with help of the eye socket.

## 02 Shading the eyeball

Another important thing to realize who painting eyes is that you are painting object. Note how the ball shape the individual of the another shaded accordingly and the eyel dividual be shaded accordingly and the eyel divid

## 03 Eyelashes

Where the use makeup to increase the zelof their ashes. To enhance that embles also darken them and the evel around them. Use a dark brown to darken everything around the lide especially in the leaves. Note how ashes become peoply to wards the ends and by exercise of plus you can make the eyes seen as a set of the people.

#### 04 Makeup magic!

Makeup is easy if you have the start of values of the eyes blocked out correctly. Add they are on top set its blend mode to Over ay and use your preferred cofor to the internakeup where you want in image D4 you can clearly see what the Over ay layer ooks tike without the blend mode to a gold overboard. If we exaggerated it for the sake of this quick tip, but subtlety is often the key.

# 05 Little specular lights

Because makeup is rather noisy and gritty its a good idea to add liftle specular in this stround the highlights to make the noise more convincing. Use a textured brush if the standard Chalik brush) add a new laver on top set its bind mode to Color Dodge and use a dark gray to do over the eyelids and the lightly onts where the eyebal meets the eye of the color brush in the











# Male eyes

#### by Carlos Cabrera

#### 01 Notice the difference

Create a new layer and pick a small 10-pixel brush to make a quick sketch. Paint the skin color with a bigger brush at 50 pixels with opacity set to 50% to blend the colors. Paint the skin color in another layer below the time art to keep the skin clean.

# 02 Volume plane

The face is divided into planes. On a top layer in Normal mode, paint the planes of the face with a big round brush. Paint the I ght with a yel ow/bright skin color. Avoid black for the shadows. Use the Lasso tool to make the projected shadows over the face.

#### 03 Shadow detail

The line art is still visible with the layer on Multiply so change the line art color to dark brown. With Casso tool draw, the shadows without losing the planes from step 0.2. Paint with a round brush at 25 pixels and opacity set to 20% to blend the skin color on the shadow areas. Work on the shadows not the highlights.

#### 04 Strong highlights

To add volume to your eye add some lights without dulling it. Now you have the color base for the shadows and skin tone move to a yellowar/brighter color keeping it desaturated. Add a stronger highlight on the forehead, and transparent ones to the cheexbones by making a selection of the highlight areas and using the Gradient. Too' from the top (where you will have the strong color) to the bottom of the face.

### 05 Smudge it all

Now we have the highlights, the shadows and some detail we need to smudge all the areas. With the Smudge Tool blend the highlights and shadows to create realistic skin. Select a 6-pixe, brush set to 50% opecity and paint the highlights on the ins. With a smallest brush paint the hair on the eyebrows with little strokes.



# Male ears

#### by Alex Negreg

#### **01** Establish the proportions

I start with lines to establish the proportions and the design of the object that I am drawing I use a default Photoshop brush I think about the volumes that I am about to render the ear is made mainly of cylindrical pieces. The sinhouette of the ear could also be considered to be a half of a heart shape

#### 02 Start rendering

Once I have finished the line art I use selections to define the entire silhouette of the object that I am rendering. In this case the shape is simple so I use the Lasso tool Once I have the se action I fill it with a skin toned color and lock the transparent pixels. I start blocking in the shadows considering the volumes that I want to represent.

# 03 Sub-surface scattering

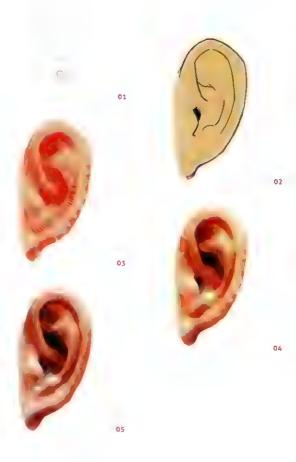
The ear is a thin layer of folded cartilage which allows light to enter the surface and bounce inside it creating sub-surface scattering (SSS). This means that inside your shadow areas there will be some saturated gift. To achieve this color-pick the existing shadow color and based on that after it so it's a bit lighter and more saturated.

# 04 Soften the surface

Because the ear is old I intentionally leave some rough textures from my initial brushstrokes. I use the Smudge tool to soften the surface with a default round brush with some Scattering. You can experiment with the Hardness option too.

#### **05** Texture details

The older the person, the more textured and harry the ear I use Bevel & Emboss with a default round brush with Scattering for the tiny bumps. The effect is too strong at first so I rastenze the layer style (nght-click on the layer and Rasterize Layer Style). I then apply a Gaussian Blur filter on that ayer so the effect is smoother. I also add some white hars coming out of the ear



175

# Delicate nose

by Bram "Boco" Sels

#### 01 The shape of the nose

As with all facial features, you should plan ahead and lay down a sketch of what you're painting Look for reference and using only a few lines try to construct how the nose fits on the face. Keep your lines on a separate ayer so you can still turn them off later

### **02** Construction

When painting a complex shape it's often better to start out by dividing it into flat blocks and planes. Study how the bridge of the nose moves inward around the brow and jumps forward at the tip. This is especially true for young noses and is a big part of what makes kids and teens look sweet and innocent

## 03 Blending the planes together

Once you've constructed the planes of the nose it is an easy task to blend them together and smooth them out. You can do this by either using a big soft brush to go over each corner or by selecting the Smudge Tool to push the pixels into each other. Don't worry about the noise and freckles you're losing you can add them quickly again later

#### 04 Lines versus edges

Now it's time to turn off the line drawing and focus on the edges. The difference is that I nes don't actually occur in nature, so you have to find a way to paint the transition between light and dark without using a hard line. Note that wherever a crevice occurs (such as beneath the nostrils), the shadows are darker and the edges sharper

### **05** Detailing

Keep on working on those edges, but don't forget the large shapes. The tip of a small young nose is often round and should be shaded accordingly. Look at how part of that round tip catches light while the other side is much darker. You can also reconstruct the freckles around the bridge of the nose and paint in that small fun highlight on the tip of the nose











# Thin lips

#### by Romana Kendelic

#### Q1 Blocking ir

start by blocking in with a soft roun.

Staying very till irred and loose helps will.

Ending the right form and expression if important the provided the surrounding areas chain cheaks philtrum (that tittle depression about the upper ip), and ridges on both sid.

They are tandmarks that he

#### 02 Darks and lights

Keeping in mind the direction of the property of the upper up is often darker because it fall away from light. Skin of the tips is naturally thinner than the skin on the rest of the face and that transparency is what gives it harartenstic residish tone outside a darker more saturated and signify orange color.

#### 03 Smooth forms

Develop the form, gently curving lines an volume. The upper lip has three forms of central rounded profuberance and two sidilitorms. The lower lip often fuller consists two. There should be no edges, with forms flowing smoothly. You want them to feel flest vand soft. Lips don't have an outline. Lipstick can change that but a vermion border in altural lips is a mild transition not a difference in the There is often a highlight ust above the border because lips curve slightly outward.

#### 04 Sharpen up the shapes

Use a hard round brush with opacity set I Pan Pressure to tighten up the stock tones in the opening of the mouth and first high lights. Pay attention to the corners of the mouth where some muscles attach and overap. This is where changes in expire most visible. Vary the hues as well-after of coors for a more real site effect.

#### 05 Details

Paint in fine tines to give the tips texture. With a very pale pink additing speckled highlights of the surface. Don't overdo this unless you want the lips to look chapped and dry











# Voluptuous pout

#### by Tim Lochner

# 01 The simplified drawing

Before I put color and rendering into the lips it's important to have a simplified drawing which describes the design of the mouth and gives it its proportions and shape. You don't have to outline every detail just the most important parts the opening line of the mouth and some indications for the riper and lower ip. Don't draw the opening line too strong it's only important to add the middle contact point of the lips and the mouth comers.

#### 02 Adding rough color

Use a large inormal round brush with 0 Hardness to fill in the basic light and shad is colors. Don't worry if you go over the inter-

It looks more natural if the lips aren I completely separated from the skin around the mouth. Reduce the opacity of the line art layer beforehand. I usually base my polors on the character's skin tone and add more saturation and red to 1. A strong red too far from the skin tone will look unnatural.

#### **03** Detailing

• Mainly use a brush with hard edges and the Opacity J tter set on Pen Pressure. Use if to add details like very subtle folds in the shadows and small light strokes for the highlights on the lit side.

### 04 i id edges

The separation of the upper and the lower lip is important. Use the freehand Lasso tool and select the upper edge of the mouth opening. Add a darker value with a small round brush with 0% Hardness. To increase this effect you can invert your Lasso selection and add a lighter value to the lower lip so the dark edge of the upper lip touches the part of the lower ip, which is a little bit brighter.

#### 0.5

To give it a more painted and real stic look, I erased the lines of the drawing I suggest adding a layer mask, which you can find at the bottom of the Layers panel.











# Male nose

#### by Alex Negrea

#### 01 Rough line drawing

Here I start a rough line block-in. It's rougher because from this angle the only things that overlap enough to see form transition are the nostrils and the skin of the cheeks, which doesn't allow us to see all the nose parts. So I add some lines even though I don't see them (for example the bridge of the nose)

#### 02 Lay down the first colors

To get some nice skin tones I activate the Color Dynamics on the brush that I am using This creates vanety in the values of the initial color you are using I also paint the shadows inside the folds even though they overlap with the line art at this point. This allows me to have that shadow already in and not worry about it later.

#### 03 Render the forms

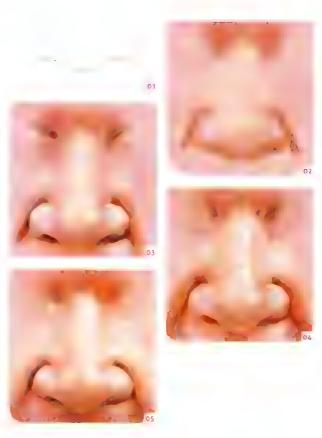
The shapes of the nose are made of spherical and cylindrical volumes. Roughly knowing those shapes in your head will make it easy for you when it comes to rendering. To make the shadows deeper I use a brush set to Multiply.

#### **Q4** Add in texture

Because my shadows were already too dark and because I am painting skin. I have to think about sub-surface scattering. I lighten them using a brush set to Lighten and with a coior that is more saturated and lighter in value than the shadow. To add texture I use a default round brush with Scattering turned on to create all those tiny speckles without spending too much time on them.

#### 05 Final details

To make the skin older I continue to add more speckles and imperfections to it. Because this is an old person's nose. I add some white hairs inside the nose to further push this feeling.



# Mouth and teeth

#### by Alex Negrea

#### 01 Line art

I start with line art to help me pre-visualize the subject that I am about to render. Having the teeth drawn out before the rendering is a huge help. The teeth marked with blue are falter than the rest. That means that when I render I hem I will treat them like a box and not as a cylinder (like the rest of the teeth).

#### 02 Block in the colors

I use the lines to do a clean selection using the Lasso lool so that later on when I need to paint on them I don't worry about their edges. Once I make the selection I create a new layer and fill it with the foreground color and lock the transparent pixels.

#### 03 Render out the values

I use a soft round brush to paint everything in this stage. I set it on Multiply for the interior of the mouth so I can paint some darker values. I keep the colors saturated and close to reddish and orange-ish colors. I pay attention to the volumes I want to render. The lips are the cylinders that wrap around the mouth and the longue is like a stretched sphere.

#### 04 Paint the teeth

Even though teeth are solid they allow small amounts of light to pass through them. That means a sub-surface scattering effect is going to be visible. Meaning that parts of the transition edge of the shadows will be more saturated and lighter in value than the shadow. I try to remember this so I don't destroy that saturation.

#### 05 Specular light and depth

eave the specular lights for the last part of the drawing. They add the glossy feel of the teeth and the other wet surfaces. Ike the tongue or the lps. Note how I keep the interior side of the mouth edges very soft to push the idea that it is a soft material and not hard like the teeth. It also adds depth, making the teeth appear more forward than the rest of the mouth.



## Fur

#### by Romana Kendelic

#### **01** Types of fur

There are many different types of fur not just in color or length but the texture too. There is bristly woolly soft and plushy silky tangled and so on Also lots of animals have layered fur a softer undercoat (downy hair) and a coarser top layer (guard hair). This top layer is usually strongly pigmented including a whole range of patterns (for example as seen on big cats).

#### **02** Basic shapes

block out shapes with a soft brush. Start with the placement of light and shadow. Paint in the basic color and tone, and pattern if any. Fur of some lengths naturally clumps together and this is what you should paint thick sections that overlap and separate. Use loose brushstrokes and leave all detailing for later. Keep in mind that fur has depth and weight. Paint in the direction of the growth.

#### 03 Clumps of fur

Define the edges of the clumps of fur. Check a reference to see how they move – is it soft fur with gentle curves or coarse and bristly which would benefit from sharper straighter. Ines? Instead of rendering every individual hair you are trying to give an illusion of details.

## 04 Details

Refine the fur. Start by adding more defined highlights and shadows. Do not use the cumps, just add more definition to them. There may be cast shadows to darken or overlaps to highlight. If the fur is not the focal point of your painting you can safely stop here.

#### 05 Guard hair

Finally add the guard hairs. Usually they are coarser single hairs profruding through the coat. Use a hard-edged brush on a separate ayer. Sharpen filters may help separate the soft undercoat from the firmer top layer (Filter > Sharpen). If the fur is glossy now would be the right time to add highlights.











To see this quick tip used in a final concept, go to page 204

## Lace

#### by Brom "Boco" Sels

#### O1 Dressing up

When painting translucent materials such as lace the background they re draped over is what makes them convincing as it shows off the transparent parts. In this quick tip we start with a pair of legs which we'll soon dress up with a fantast c-looking lace skirt.

#### 02 The base of the skirt

Start out by painting a convincing base without worrying about the details in this case, went for an opaque white skirt you can change the base cofor to whatever color you want. Keep in mind that the shape of the skirt should wrap around the legs as convincingly as possible.

#### 03 Opacity

Next duplicate the layer then hide the back layer and select the top layer. At the bottom of the Layers palette click Add Layer Mask and press Ctrl+1 to invert the layer mask. Notice the skirt disappears – this is because your layer mask is now empty (black). If you now select the layer mask (click the black rectange next to the layer's thumbhail) and paint in that mask with a white brush, your ayer will show through wherever you paint Finally, unhide the second skirt layer and set its opacity to 50% to get a see-through skirt.

O4 Painting in the lace pattern
Select the upper skirt layer (which is shift invisible due to the black mask) click on the layer mask (the black rectangle) change your foreground color to white and you can now use a regular brush to paint in the 'ace pattern Everywhere you paint in the layer mask the opaque top skirt will appear in your canvas

#### 05 An extra detail layer

Finally, create an extra layer on top of the others and paint in the rest of the details. Don't do this in the masked layer, as lace patterns tend to be bumpy and uneven, while the masked layer is clean and straight.



## Leather

#### by Bram "Boco" Sels

#### 01 Background

Fill your background layer with your chosen ocal color and use a big brush to create a general direction for the light I used brown with a top light, so lighter browns will be in the middle while the outside is dark.

#### 02 Leather textu-

Add a new ayer fill it with white and with a dark brown foreground color go to Filte > Filter Gallery > Texture > Sta ned Grass By changing the Cell Size you if get a larger or smaller texture. Now use Filter > Filte. Gallery > Brush Strokes > Spatter. Select. Accented Edges to get rid of the stiff edges.

#### 03 Bevel & Embr

With the white texture layer still showing click on Channels in the Layers patette. Ctrl+click on the blue channel. This selects everything white (the leather cells) so go back to the Layers tabilities of the brown background layer and do Ctrl+C and Ctrl+V to copy/paste the cells from the background. Hide the top white layer and double-click on the new layer. You ill see the Layer. Style window – click on Bevel & Emboss. This wilk make all the leather cells pop up with a nice highlight and shadow color.

## 04 Multiply

Unhide the white leather pattern and set is blending mode to Multiply to accent the crevices of the leather. The pattern is rather horizontal, so select both your Multiply layer and the Bevel & Emboss layer and rotate them a bit. You may have to resize them to fill the empty space from the rotation.

#### 05 Dirtify

To make your texture more convincing add some scratches and dirt. Create a new layer on lop and use some rugged brushes to paint over the layers below. Add some broad strokes of dirt with big soft brushes, and some rougher scratches with smaller sharper brushes, to ach eve a less digital look.









183

## Silk

## by Bram "Boco" Sels

#### O1 Local color light co or

Sink is fairly reflective so lighting conditions are important. Choose the color of the silk (local color) and the color of the ght in the environment dight color). In this case the silk is red and the light is builds so the silk is red and the light is builds so the highlights of the silk will be purplish pink (red mixed with blue). The shadows will turn out to be a warm kind of brown.

#### 02 Shadows and folds

To make your silk shine it has to feel organic and folded. Start with the shadows, and use just one color to paint the shapes. Every shadow you paint will be tower than the rest, so try to create a logical transition between the red shapes.

#### 03 Highlights

Once you've painted the shadows do the same for the highlights. Think about how folds intersect with one another your highlights will form lines that flow over into each other. For each shadow painted in the previous step, paint a highlight near to

#### **04** Blending and smoothing

Once your basic colors are laid down it's time to start blending them. Shadows will be darkest where they are furthest away from the camera and will gradually flow over into the middness the same goes for the highlights. The sharper a fold, the sharper the highlight on it so in places where the silk takes sharp turns you can use the Lasso Toot to get some tight edges.

#### 05 Texture

Although silk fee's smooth it still has a Little texture and no se in it. A quirk way to get this texture is to press Ctrl+A to select a and Ctrl+Shift+C to copy then Ctrl+V to paste a merged version of your painting. Now go to Filter > Filter Gallery. > Chalk & Charcoal and press OK. Finally hit Ctrl+Shift+U to desaturate the ayer and set its blending mode to Soft Light.











# **Jewelry**

#### by Romana Kendelic

#### 01 Sketch

#### 02 Blocking in

Set your swetch layer to Multiply Crea inother layer this lath blocking in the basic colors in a midtone range. Note the light source and how this changes across the forms. There are two

one and one further away. Esta miltones core shadows, and no the spherical gems. On the cubes I in the spherical gems on the cubes I in the spherical gems of the spherical gent of creating a litistic of 3D objects on a 2D canvague.

## 03 Developing the forms

Lower the opacity on the sketch start develop ng the forms ip a how different materials act. The elopt in the ring is semitransparent light enters the Jem from the right and at then pools on the opposite end. The light shines through takes the coupem. The spherical gems are opalito not transmit the light. The core shad

#### 04 Metal

Turn off the line taver ymbor next to it) and netal c parts ring an was shift from sightly dreiflange of other was the shadows contrast is the key here

#### 05 High, phis

ts at about where reference the more reflective tis the standard arms when the standard arms when the standard arms when the standard arms when the standard arms are standard





# Weapons

#### by Carlos Cabrera

#### O1 Don't lose the shape and line

Draw everything in one layer (line art layer).
Create another layer below this. Make a quick selection with the Lasso tool. fill with the Paint Bucket tool, and using the same selection apply a gradient to create light and shadow. Change the layer mode!

Multiply to see the line over our base layer.

#### 02 Simplify with boxes

When painting the light and dark areas simplify the shape. You can do this in another layer. The strongest lights are followed by a darker shade to give a flat and deep feeling to the shape. Use the Polygonal Lassiselection tool to create the faces and the Paint Bucket tool to fit them with gray colors.

## 03 Add detail to the object

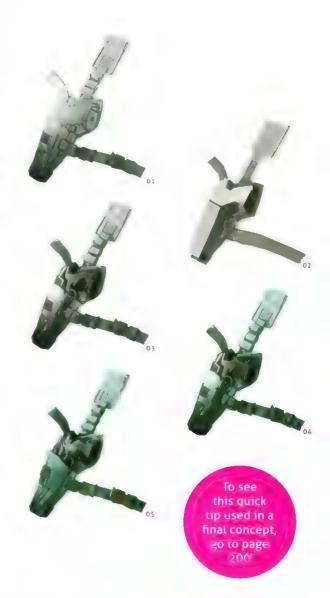
Using the Brush tool and a brighter color than the base paint the weapon with an a most white color to achieve a metal infeeting note where metal reflects hight. Paint soft shadows on the hoister to emulate the fabric. Use the Dodge tool to add the highlights and create softer lights.

#### 04 Calors

Add a new layer in Cotor blending mode and paint with a desalurated blue. Prox a green and paint only the shadow side of the weapon and holster. In a new ayer set to Normal mode paint where the high lights will be with a round brush at 20 pixe's. Smooth out the Light and shadows on the gun to make it reals.

#### 05 More detail and realism

Add contrast to color to create better volume. Soften the fabric with the Smudge tool to create a realistic texture. With a 10-p kel round brush, paint highlights on the metal and blend the reflections. Add saturation to the shadow area with a vaver set to Overlay. Add small details, like seams and creases with a smal 12.5-p xeround brush set to 100% opacity.



## Glasses

#### by Bram "Boco" Sels

## 01 Designing the glasses

The seling power of your image comes from the design of the glasses. In this case I went for an oid mode, that it is on the nose, and started out by creating two separate layers. For it one with a dark color for the frames, and one with a gray color for the glass.

## 02 Deciding on the color

Once you have both layers you can " what mater all your glasses will be made. The glass itself is easy to do just put the ayer s opacity to 20% (or more if you waithicker glass), and that's it. The frames are it have glass), and that's it. The frames are it have glass, and that's grant and you have glass, and that's it. The frames are it have one or we want. I give them a gold brack ind of color by pressing Ctrl+U and fidding around with the suders unit. Am sait sfeet

#### 03 Bevel & Emboss

For shapes that are thin and small like this one. Bevet & Emboss can get you started really quickly. Double-click on your frames ayer in the Layers palette, choose Bevet & Emboss in the pop-up, and change the coors of the highlights and shadows from white and black to browner colors. HLOK and right click on the layer to Rasterize Layer. Style. This merges the effect into the layer.

## 04 Highlights

Bevel & Emboss can only get you so far though its aid gital effect and therefore tooks like one so it helps to go back in and manually paint over the effect. Also think about where the light is coming from (in my case from the top- if) and accent the frames with some bright high lights in that direction.

## 05 Cast shadow

To make your glasses even more convincing paint in the cast shadow it leaves on the face. It helps to ground the glasses on the nose and makes it all the more convincing. Finally you can also add some intille scratches and bumps to the mode to make it a little more worn and used.

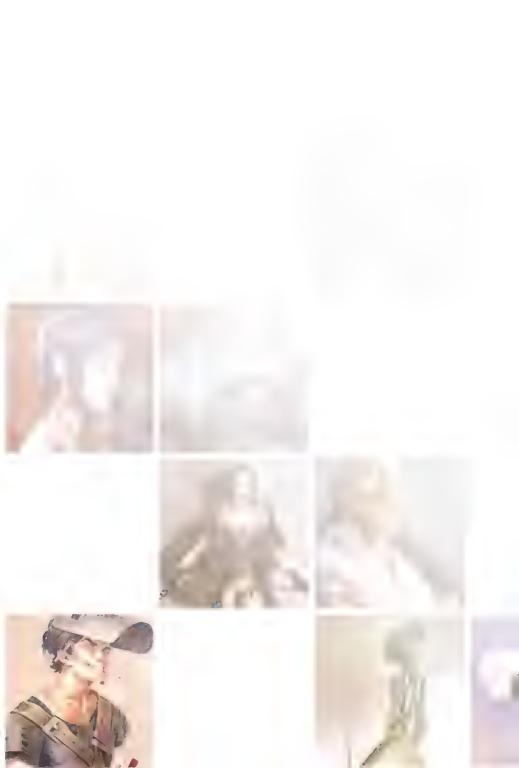












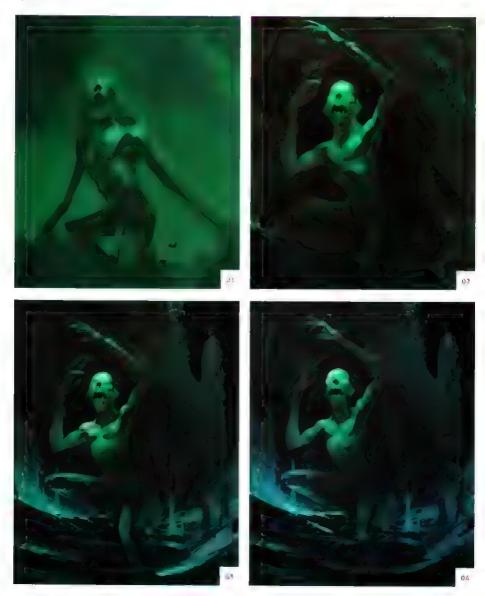
# **Breakdown gallery**

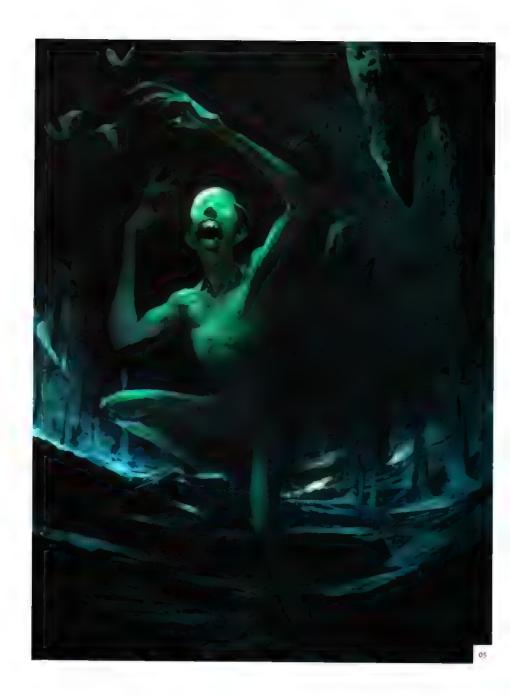
Find inspiration for your own creations with a gallery of diverse characters.

In this section you will discover a stunning gallery by a selection of talented artists, which will also uncover the visual progression of each image as they reveal the steps behind their process. This will enable you to understand how different elements covered in this book can be combined and built upon to produce a top-quality character painting.

# Subterranean man

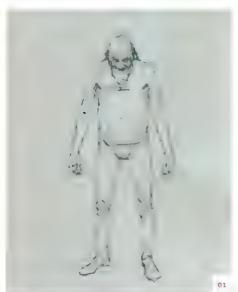
by Chase Toole





# **Alchemist**

by Andrei Pervukhin











# Femme fatale

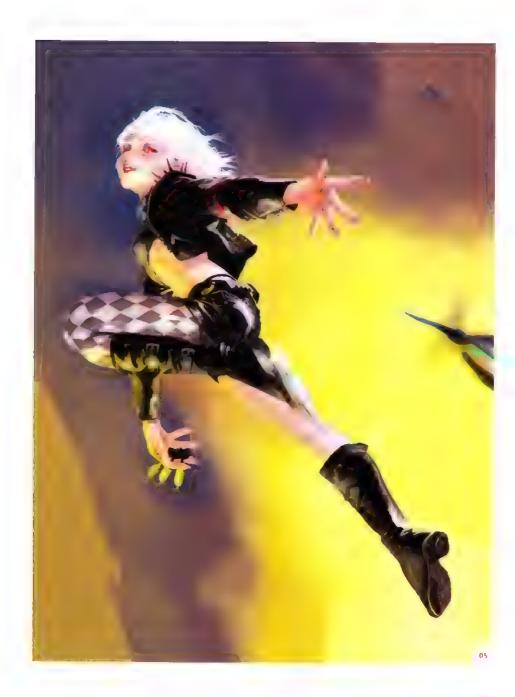
by Pyeongjun Park











# Warrior elf

by YongSub Noh











# Bio-mechanoid

by Gerhard Mozsi











# Sci-fi soldier

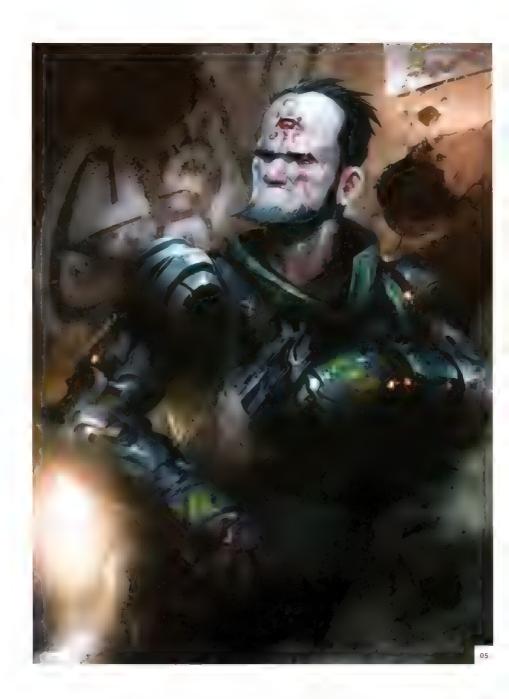
by Carlos Cabrera











# Tattooed girl

by Tim Lochner



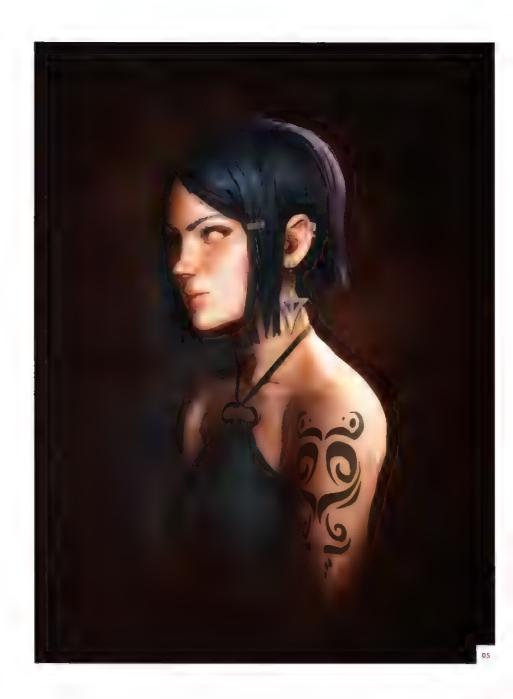


0.1





202



# Regal old man

by Romana Kenderc











# Moonshine villain

by Charlie Bowater







206



# The socialite

by Devon Cady-Lee





## Glossary

# A

#### Adjustments layer palette

Above the Layers palette (if it's missing go to Window > Adjustments) you'll find the Adjustments layer palette. Each of the buttons here quickly creates a new adjustment layer on top of the layer you have selected. What an adjustment layer does is change the way all the layers below it ook. You have adjustment layers to change.

brightness contrast levels hubs colors and so on The benefit of using these layers is that you quickly tweak your image without actually changing the information in the avers below in other words, you can always to back an in the right of detect the adjustment ayer later if you're not happy with the results.



B

#### Background

The Background layer is the bottom layer of the layer stack. It's partially locked because you can't put anything below it and it can tibe directly edited either. It is atways at the very bottom of the image and fills up the entire canvas (see Canvas). It functions as the foundation in which you build your image every new layer will be built in top 3.7.



#### Blan

Burring is a technique that's mostly used to reduce deta is and noise in an image or layer in Photoshop there are typically two ways a blur can be applied the first via Filter > Blur (Gaussian Blur being the most notable here) the second via the Blur tool found in the tool.

bar under Smudge. While the first applies an equal blur to the entire layer the latter can be used as a brush in different places. Note that once you apply a blur it's irreversible so it's a good idea to always keep a backup layer before you start blurring away.



#### Bounding box

The bounding box is an invisible box that holds the content of a layer. You can easily turn it visible by clicking on the Setect tool and checking the Show Transform Controls box. Now your layer will be surrounded by its bounding box. The Transform Controls on the side of the box can be used to quickly rotate and resize the bounding box simultaneously rotating and resizing what is not as well (see Rotate and Scale).



#### Brush too.

The Brush tool can be used to paint lines shapes and textures in any color It's mportant to set your brushes up in a way you're comfortable with. Something that can help you tweak the brushes to your liking is Shape Dynamics, Shape Dynamics can help you mimic real ife brushes by a tering the brush settings (see image). Putting the control of the Size Litter to Pen Pressure mimics the effect of a real paintbrush. When you press hard on your stylus a lot of paint will appear on the paper and when you press ighty only all tellul appear. This option is great when doing line art. b. J. a.s. when filling larger areas and you want your work to have a traditional textured look





#### Burn/Dodge to 15

The 8um/Dodge tools are basically brushes but instead of laying down paint they darken or lighten the paint that's already there. This is really helpful when you want to darker or I ghten a specific area rather than the entire mage. Two important settings to keep in mind here are Range and Exposure Range let's you pick what it is you want to darken or lighten and Exposure how har . you want to change it. Say for instance that the darkest tones of the shadows in your painting are too bright, select the Burn tool set its range to Shadows and quickly brush over the shadows you want to boost It il quickly darken it up while leaving the mid-toned and high ight parts of it intact





## Canvas

The Canvas, much like a traditional painting canvas is the surface you work on. The Canvas has nothing to do with the resolution of the image (see Resolution) but is merely a guide to show you where your painting begins and where it ends. Unlike a real canvas you can easily increase your canvas size while working via Image > Canvas Size.



#### Clone Stamp tool

Sa Hercal Plance (1986), or supp or brushstrokes is with the Clone Stamp tool If you hold Alt with the Clone Stamp too selected you I notice the cursor changes to a cross. If you now click anywhere. on your image that spot will become the starting point for the duplication. Release At and now you can 'paint' with the part you've just selected. Another useful trick s to change the sample in the top bar to Current Layer which will keep your clone restricted to what's in that layer it's a cootrick to duplicate silhquettes and edges

#### Color adjustment layers

These three adjustment layers are Hue-Saturation Color Baiance and Sel- Clive They are mainly used to change of the underlying layers

H S ituration give you the option to stide the entire color scale of the layer at ind also lets you saturate and desaturate it

or Balance is a bit different since instead of changing the entire color scale at once · # 1" you hone in on a specific range and hange just that range. Say for instance. that you fee your shadows are too cold select Shadows as your tone and move the Yellow-Blue's ider towards yellow and the Cyan Red sider towards red In no I'me your shadows will feel a lot warmer

# A savers



Finally Selective Color goes even further and lets you pick a specific color and change just that color. Feet your Greens aren't lush enough? Just select Green under colors and tweak it from there





Color mode

irganized. Standard printers only have four different inks leyan, magenta, yellow, and black (CMYK) and they create different colors by combining those four inks. So in Photoshop you can organize your image in a way that a printer knows how much of which ink it needs to recreate a color similar to what you see on your screen.

That's where the Color mode comes in A good rule of thumb is when your image will be used on screens use RGB and when it will be printed use CMYK.



#### Contrast

In Photoshop: Contrast stands for the difference between light and dark. Increasing contrast means the dark parts of your image become even darker and light; arts even ighter covering he contrast will to the opposite and will result in a neutral more grayed-out image. You can increase the contrast of a rayer via Image. > Ad ustments. > Brightness Contrast. It is a great way. It make your values more readable.



#### Crop

Cropping an maje is a will the set, and carrials set (1 × s. b) cittle if it in short you select the part of it, mage you want to keep and everything outside of that selection will be develed so in contrast to Resize Canvas at also develed all the information outside the borders of the canvas idearing up unused parts of layers and as a result decreasing the file. There's a quick and simple selection you set in secret, in many with the bound of the found in the toolbar or by pressing



## E

#### Filter

Filters are mostly used to add specific artistic effects to images, like making a layer look. If a country a my ross on the style or look as though it was drawn with charcoal Some of these filters can be used as smart filters, leaving the layers to which they are applied intact, but most of them, will irreversibly change the layer soluse.



#### Flatten

Fiatten simply means all your layers are combined and merged into the background layer (see Background Needless to say it's something you'on you want to do flyou are absolutely surrely ou don't need your layers anyone.



## G

#### Gaussian Blur

Gaussian Blur (Filter > Blur > Gaussian Blur) is an easy-to-use filter that blurs your selected layer. It is a great tool to virtually create depth of field. Remember blurring a layer is irreversible so use it carefully. Gaussian Blur is a filter which means it's a digital calculation and will therefore took digital - If you want a realistic/traditional fee its best to create the effect without a filter. It's a useful tool in a product in pipeline where things need to go quickly and efficiently.

#### Gradient too

The Gradient tool much like the Paint Bucket too (which will fin an area around the pixel you clicked with your selected color) either fills the entire layer or just the part you've got selected and creates a gradual blend between two or more colors. The standard gradient consists of the two colors you've selected as foreground and background colors so you can guickly create new gradients by using the Color.







Picker Alternatively you can also click on the gradient in the options bar on too to

open the Gradient Editor and to manually modify it to blend more or different colors

#### Grayscale

Grayscale is a Color mode (see Color mode) that turns your entire image to black and white ideleting all color information but making your file size much smaller. What's

miportant to know about Grayscale is that the Histogram is based on it and it is a scale that consists of 256 different values ranging from black (being value 0) and white (being value 256). Every type of gray can be found between those two values. The same scale is used by other Color modes too, but there each value also has a color applied to it.



#### Highlights/shadows

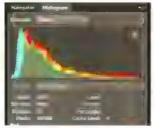
Each image can be lurned to black and white and seen as a combination of different values used Grayscale) it is in these values that we find the highlights and shadows. Everything that's dark can be considered shadow, and everything light a highlight (in between are midlones). In Photoshop these terms are used to let you know where the effects are applied – if you use Color Balance, you can change the tone to shadows and only apply the effect to the darker parts of the image.

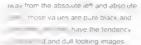


Radus:	30	px
Adjustments		
Color Correction:	+20	
Midtone Contrast:	0	
Black Cip:	0.01	%
White Clp:	0.01	%
Save As Defaults		
Show More Options		

#### Histogram

The Histogram gives you an overview of the values in your image. You can find it under Window > Histogram It's an especially useful tool to keep your values in check. From left to right I shows how your values are divided. On the left are the dark values on the right are the light. In the extended view you can also see the values for each separate color channe. When using the Histogram there are a few things to consider is the flow of the graph more or less fluent? If there are big spikes there's probably a value that's too prominent and should be broken up into a few more subtle values. Another thing to keep in mind is that your values should stay.







## K

#### **Keyboard Shortcuts (Actions)**

Keyboard Shortcuts work in the same way as Actions (see pages 18-19 in the first chapter of this book). Using Keyboard Shortcuts efficiently can save you a lot of time. When you get comfortable with a working method you II notice that you often repeat the same steps over and over and in that case it pays to have a shortcut for it. Click on Edit > Keyboard Shortcuts and here you can change the way you access most of the tools found in Photoshop.



#### Lasso tool

Getting sharp edges becomes easy when you use the Lasso tool. Simply select part of your image using the tool create a new ayer fill with a color and cick on Lock. Transparent Pixe's (see Layers paletter and you'll have a sharp's lhouette, which you can fill with whatever you want. There are two important Lassos, the basic Lasso, and the Polygonal Lasso, which does the same but with straight lines. You can quickly alternate between the two by pressing Alt. It takes a bit of practice, but it aboutlety pays offi



#### Layers palette

The Layers paiette is your finend! It's one of the most important features Photoshop has to offer so try to make good use of it. The basics are simple, think of layers as stacks of paper if you cut a hole in the top paper the paper he ow bricomes visible. The Layers palette is a visual representation of that stack of paper. One of the most important butters.

here is the Lock Transparent Pixes but on at the tup. You can guick upgget to keyerything in the lave lives haven tipainted on and flyou paint on the layer now it will only change the parts that have pixes in them. Other auch button are at the bottom Drag act after diversion them to respectively create a foldor list cate or deteils them.



## Lightly

The Liquify filter a keyou to push purind deform your selected areas as if they were keel paint. You can find this option is Filter > Liquify where a separate, it is window will appear so you can view the effects before you make them permaner.



## <u>O</u>

#### Occ Using shadow

The darkest parts of the shadow are usually it points of contact, where secondary nources can I reach. These are calling colusion shadows. Occurs on occurs where the main shadow meets the cast shadow and it is usually very dark.



#### Opacity

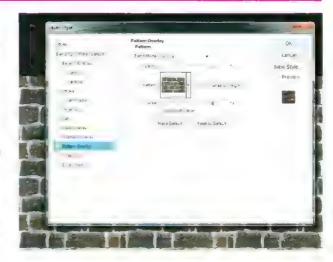
Each layer see Layers paletter in your layer stack can differ in opacity. Basically opacity which is expressed in %1 tells you his simple your layer is. A layer with 100 % - 1 his ad solid aver you can I see through in devery pixel in that layer with a control of the pixels be writh Turn 1 to 50% and that pixel will show 50% of teef as well as the control of teef kills.



#### Patterns

When you double-click on a layer in the Layers palette the Layer Style window will open. In it you lill find the Pattern Overlay option, which is used to fill the entire ayer with a pattern. You can use these patterns to give your image a texture by changing the Blend Mode of the pattern to Overlay Soft Light or Multiply.

Creating your own patterns is also easy Simply open up an image from which you dike to create a pattern and click on Edit > Define Pattern You I now find your new pattern in the Layer Style window. Tile able mages work best for this since they'll seamlessly flow over into each other. On sites such as http://if freetextures.3dtotal.com.and.www.cgtextures.com.you.can.download lons of bie able patterns for free





#### Resize

Resizing your image means you either decrease or increase it in size. Which of the two you do is important though, because in the case of the first you trask Photoshop to use the pixe's you have to make the image.

smaller which is usually not a problem, but in the case of the alter you'll ask it to space out the pixels you have and invent, the open spots that if turn up between them, increasing the image size is usually not a good idea.

because you'll end up with a blurry image as the pixels become more spread out it's always better to start out big and resize your image later, than to do the reverse

#### Resolution

For a lot of people the resolution is a complicated concept because they often confuse it with the resolution of their screen But think about it like this an image of 10 × 10 pixels in Photoshop (that sino) accorded in or out it will exactly use 10 × 10.

pixels of your screen regardless of how high the resolution of the file is. Why are there different options there then? Other hardware such as a printer does not know what pixels are. So in your file you can include information as to how it should deal with those pixels "ppi stands for pixels per inch and simply tells your printer how many pixels it should print on 1 inch of paper. The rule of thumb here is that images for print should have a resolution of 300 ppi mages for web have enough with 72 pp.

#### Rotate

Rotate is used to literally rotate the layer you've got selected. By turning on the Transform Controls usee Bounding box) and hovering your cursor over the comer of a layer you will see that it changes into a bent arrow.

With it you can turn a layer 360 degrees around to whatever position you want. This is useful when you we got different objects on different layers and you feel some of the objects lack dynamism or don't feel like they fit aght in the composition.



# 5

#### Scale

Scale is another word to describe the size a layer has in your image. In other words how big it is compared to the other

layers You can quickly change the scale of a rayer by turning on the Transform Controls (see Bounding box) and dragging

the control points that populp Quick tip holding Shift while dragging on the corners keeps the proportions of the layer intact

#### Selection

A selection in Photoshop is immediately recognizable by the "marching ants surrounding it (moving dashet lines) it is an important feature in Photoshop because what you've got selected is the only part of the image or layer that will be

affected when yo , ork in it. Selections can be tweaked and modified by right clicking in them and cacking Refine Edge By doing this your can see exactly what you ve got selected and change how soft or smooth the edges of that selection are



#### Sharpen

Sharpen is a filter that locates the edges in your image and then increases the contrast (see Contrast) around them making them appear more defined and crisp. The most regularly used Sharpen is the Unsharp Mask which you can find under Filter. Sharpen > Unsharp Mask but you can also use the Sharpen too the same way you divide the same way y

use the Btur tool used Biur). You might be tempted to think of it as a way to reverse blurning but nothing is more wrong. Blurning is a way to reduce details and noise, but Sharpen can never reinvent all that lost detail instead it will result in an image that's blurred, but with very high contrast.



#### Smudge tool

The Smudge tool does exactly what the little con shows it pushes your paint around its like putting your finger in wet paint and smearing it around. It might sound a bit messy but it's a useful tool for several reasons. First and most important it helps you to be able to generate different types.

of edges – instead of having only straight sharp edges some of your edges could be blurry and beend with the background Second when you are painting materials that have a smooth surface it helps you to blur the surface without losing that painterly feeling which you may be tooking to achieve



#### Swatches

It's a good dea to keep a collection of swatches. Sites like http://color adobe.com.can help you find and save the perfect colors for your work (there's also a separate pa ette for that site built directly into Photoshop under Window.> Extensions.> Kuler). If you have a color selected simply open up the Color Picker (by clicking on the color in the Tools pa ette) and click on Add to Swatches. You'll now find your new color in your Swatches palette. Look

for color palettes consisting of five colors that fit well together and then add a black Swatch to separate it from the next five You It then have quick and easy access to a few super solid color combinations.





#### Value adjustment layers

The first three adjustment layer options are your go-to layers to change the values of your mage Brightness/Contrast is by far the simplest, and provides you with ust two sliders that you can use to adjust the tonal range of the image. The Leve's pane shows a histogram for the image On the left you see the dark values and . . the right the light values. With the sliders you can easily change a specific part of the values without touching the values you're happy with. The Curves panel is the most complicated, but it does the same a-Levels (it's more expensive if you war it micromanage your values). It shows you the same histogram, but instead of use . sliders, t uses a curve to alter the values







## Vignettes

v ) ellos dave here used in the photo prophy and find construction and so it is a technique in which the periphery of an image is darkened, which helps to guide the focus.

- the mide if he mage towards what
- to the aver stack fill if with white then

set is twent mode I. Mart ply and go to

Filter a cens Correct on Them usholus on

Cuse in where you can change the a gnette

slider moving it to -100 works well

#### Warp tool

Schielines a shape list doesn't fee. 1 in right and needs to be altered a little to fit in that case the Warp too is the way to gu You can find it under Edit? Transform > Warp. What the Warp tool does is cover your layer with a gnd that has 16 anchor points in it. You can drag and move each of those points to transform the layer exactly how you want. I. Alternatively in the same menu you can also find Distort and Perspective, two other great ways to manipurate your layers.





Z

#### Zoom

The Zoom function is another great

Photoshop feature. Instead of having to
move back from and forward to your canvas.

ixe traditional painters used to do you can have Photoshop do it for you. There are a few ways to zoom in or out in Photoshop but the most common y, sed is the whee of a Wacom tablet or by pressing Ctrl and

+ to zoom in or Ctrl and - to zoom out

## Meet the artists



Ahmed Aldoori Concept artist www.medsketch.blogspot.com



Alex Negrea Freelance illustrator www.alexnegrea.blogspot.com.



**Charlie Bowater** Illustrator and Atomhawk concept artist www.charliebowater.co.uk



YongSub Noh Freelance concept artist www.artstation.com/artist/YONG



Carlos Cabrera Freelance concept artist www.artbycarloscabrera.com



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**Derek Stenning** Concept artist and illustrator www.borninconcrete.com



Markus Lovadina Senior concept artist www.artofmalo.carbonmade.com



**Chase Toole** Illustrator and concept designer www.chasetoole.com



Gerhard Mozsi Concept artist and matte painter www.mozsi.com



Benita Winckler Freelance concept artist and illustrator www.benitawinckler.com

## Index

Age, 73, 90, 94, 102, 157, 168 Airbrush, 138, 140, 146-147, 164,

Anatomy, 7, 32, 43-44, 60, 82, 84, 96, 142, 168 Armor, 44, 57, 60, 124-126, 128,

134-135, 138-139

Arms, 49, 60, 85, 122-123, 127 Atmosphere, 36, 40, 56-57, 71, 76, 116, 226

Audience, 33, 44-45, 50, 52, 54, 60, 69, 72, 75, 143

Background, 7, 22-27, 35, 38, 40, 57, 63, 68, 71, 73, 75, 77-78, 81, 106, 112, 116, 130-134, 151, 153, 156-157, 162, 171, 182-183, 210, 213-214, 218

Balance, 19, 49-50, 52, 65, 69, 115. 130, 140, 151, 155, 158, 212, 214 Beard, 84, 89, 99-100, 102, 154, 157

Bevel, 175, 183, 187

170, 176, 177, 185

Blending, 23, 26-27, 40, 86, 92, 108, 130-131, 136, 138-139, 143, 166,

176, 183-184, 186 Blocking, 23, 90, 113, 145, 153, 163,

Blur, 78-79, 86, 100, 110, 147, 169, 175, 210, 214, 218

Body, 7, 44, 48-51, 60-61, 70, 82, 83-86, 89-90, 93, 107, 114, 122-124, 127, 133-135, 138-140, 143, 157, 165 212

Brightness, 139, 155, 164, 171, 210, 213 219

Burn. 92, 105, 109, 114, 186, 211

Canvas, 7, 11-14, 16-20, 22-26, 28, 35, 37-38, 64-65, 68, 71, 83, 90-91, 135-136, 151, 153, 157, 182, 185, 210-211, 213, 219

Cheekbones, 89, 93, 174, 177, 179 Child, 41, 60-61, 67

Chin. 46, 67, 89, 92, 94, 136-137, 177

Clothing, 7, 17, 56, 60, 61, 73, 104, 108, 110, 113, 114, 122, 124, 128, 146-147, 154-155

Cold. 36, 47, 74, 76-78, 117, 118, 122, 123, 133, 152-153, 155, 165, 167, 212

Composition, 7, 19, 43, 58, 61-69, 71-72, 76, 132, 150-151, 185, 217, 225 Concept 8, 13, 20-21, 69, 76, 82, 84-85 88-89 102 104 113 123 142-143, 163-164, 168-169, 171-172, 174, 177-178, 181, 186, 217, 220, 226

Costume, 7, 21, 57-58, 70, 82, 104, 106-108, 110, 113, 122, 124, 127, 142-144 146-148 150 153-158 Curves, 45-46, 49-50, 71, 177, 181,

Custom, 8, 14, 28, 30, 32, 34-35, 81-82, 113, 137, 150, 154-156, 158, 167

#### D

Darken, 100-101, 114, 116, 124, 173, 181, 185, 211

Default, 12-14, 19, 29, 170, 175, 179 Deforming, 155, 157, 216 Depth. 8, 56, 82, 113, 124, 131, 133,

152, 155, 163, 180-181, 214 Departments 116 174 184 186 212

Dirt. 106, 110, 183

Distort, 109, 152, 171, 219 Dodge, 26-27, 59, 92, 94, 99, 105, 109, 116, 164-166, 169-170, 173, 186, 211

Duplicate, 113-114, 140, 146-147, 152, 155-156, 182, 212, 216

Far 7 89 98 122-123 133 172 175 Emotions, 44, 46, 47, 50, 52, 54, 69 73, 75, 76, 132, 142, 225 Environment, 57, 72, 77, 82, 88, 104 112-113 116 118 122-123 126 128, 133-134, 156, 167, 184, 226 Evil, 45, 54-55, 57, 75-76, 97, 104,

Expression, 44, 46-47, 50-51, 55-57,

60, 76, 142-143, 154, 177 Eye, 21, 29, 36, 40, 46, 47, 49, 58, 62-63, 67, 72, 86, 89, 94, 96, 107, 123, 133, 150, 173-174, 185 Eyebrows, 46, 136, 174

#### F

Eyedropper, 27, 39

Fabric, 44, 105, 139, 143, 150, 186 Face, 7, 29, 46-47, 55-56, 60, 86, 76, 88-90, 92-93, 96, 102, 105, 114, 123, 128. 136-139. 144-145.147-148. 154. 157, 168, 172, 174, 176-177, 187

Feet, 83, 86, 122, 140 Female, 7, 45-46, 48-49, 56, 134,

Filter 38 79 86 100 110 147 167 169, 181, 183-184, 210, 213-214, 216, 218-219

Fingers, 82, 140, 218 Flatten, 123, 180, 213 Flip. 19, 71, 90, 136, 171 Focus, 32, 40, 49, 57-58, 63, 66,

70, 72, 76, 83, 85, 90, 112, 127, 135, 144, 151-153, 167, 176, 219 Forehead, 60, 89-90, 94, 165-166

Freckles, 34, 137, 167, 176 Fur. 35, 57, 181

168 174

Gaussian, 79, 100, 110, 147, 175, 210.214 Gesture 44, 50-51, 54-56, 58, 66,

112 143 Gradient, 98 124, 127, 137, 152, 157, 164, 165, 174, 186, 214

Gravity, 84, 96, 134-135, 140 Grayscale, 40, 127, 129-130, 155, 214

Hair. 7. 34-35. 40. 46. 55-57. 74. 76. 81, 89-90, 92, 96-102, 104, 138, 161-166 174 181

Hand, 8, 13, 38-39, 51, 55, 57-58, 86, 113, 118, 121, 123-124, 131, 137, 140, 148, 153, 168, 213

Head, 21, 45-46, 49, 60-61, 82-84, 88-92, 94, 98-99, 102, 108, 133, 154, 185,188 179

Highlights, 32, 38-39, 74, 85, 86, 90, 94, 98-100, 105, 108-109, 115, 128, 134, 135, 137, 139, 147, 155-156, 158, 162-170, 172-174, 176-178, 181, 184-187, 211, 214 Hips. 48-49, 84, 122

Hue. 37, 40-41, 59, 68, 74, 76-78, 90, 130-131, 145, 148, 168, 170, 177, 185, 210, 212

Imperfections, 29, 101, 164, 179 Inspiration, 21, 49, 53, 74, 134, 225 Instance, 44, 83, 89, 93, 98, 104, 107, 137, 211-212 Invert 40 49 78-79 116 178 182

Iterations, 75, 82, 135

Jacket, 57, 61, 104, 114, 106-108, 110, 138 Jaw. 48, 89

Jewelry, 55, 60, 185 Jitter, 31, 35, 98-99, 163, 165, 178,

Knees, 83, 86, 113

## L

Landscape, 17, 65, 148, 158 Lashes, 137, 173 Lasso, 68, 102, 116, 126, 132, 163-

164, 169, 174-175, 178, 180, 184, 186, 215 Leather, 26, 104, 158, 183

Leg. 84, 114, 122, 139, 147, 182 Levels, 12, 31, 44, 48-49, 54, 62, 67, 86, 107, 116, 127, 131, 132, 137, 139, 143, 146, 147, 152, 155, 210 219

Lighten, 100-101, 124, 131, 152, 179, 211

Limbs. 48, 122 Lips. 7, 46, 122, 123, 137, 147, 177-178, 180 Liquify\_155, 216

#### M

Male, 45-46, 49, 92, 153, 174, 175. 179

Manneguin, 105, 112-113, 142 Mask, 21, 25-26, 47, 77-79, 84, 89. 93, 98, 108, 114, 133, 139, 143-147, 152, 155-157, 163, 167, 178, 182 Medieval, 7,110, 142, 148

Merge, 19, 40, 135, 152, 158, 164 Midtones, 85, 94, 158, 163, 184-185, 214

Mood. 7, 8, 21, 36, 43, 46, 49, 70, 72-74, 76, 78, 82, 112 m 116-118. 134, 151, 158, 226

Mouth, 7, 46, 89, 99, 114, 122-123. 133, 177-178, 180

Multiply, 23, 92, 118, 152, 157, 167, 170, 174, 179-180, 183, 185-186, 217.219

Muscles, 46, 48-49, 57, 83-85, 107, 134, 177

Mustache, 82, 89, 97, 99

## N

Narrative, 8, 72

Natural, 35, 61, 69, 77, 113, 132,163, 166, 177-178

Neck 46, 186

Noise, 82, 86, 84, 110, 167, 173, 176, 184, 210, 218

Nose, 7, 46, 89-90, 93-94, 98, 114. 123, 133, 136-137, 150, 168, 176, 179 187

Nostrils, 122-123, 133, 176, 179

Occlusion, 109, 216

Otd. 21, 44, 47, 57, 75, 99, 102 142, 150-151, 168, 175, 179, 187, 204, 225

Opacity, 24, 26-27, 31, 33, 79, 83, 86, 90, 93, 99, 108, 110, 116, 123-124, 127, 130-131, 133, 136, 139-140, 143, 144, 157, 163, 164, 167, 169, 171, 174, 177-178, 182, 185-187, 216

Opaque, 23, 83, 182, 185, 216 Outline, 26, 55, 140, 162-163,

177-178 185

Overlay, 26-27, 64, 92, 99-100, 102, 108, 114, 130, 139-140, 162, 164, 166, 171-173, 186, 217

Palette, 11-12, 22-23, 26, 38-39, 59 74, 76, 77, 82, 84, 94, 98, 107-108. 114-115, 135, 140, 155, 165, 167, 182-183, 187, 210, 215-218 Patterns, 22-23, 60, 105, 132, 144, 147, 150, 152, 156-157, 171, 181-182, 212, 217

Perspective, 67, 82-83, 86, 114, 118, 136, 144, 147, 152, 171, 219 Photographs, 38-39, 74, 102, 110,

Pores, 90, 94, 168 Portrait, 14, 17, 46-47, 62, 66, 69, 71, 76, 82, 88, 97, 113-115

Pose, 7, 44, 49-51, 56-57, 60, 67, 82, 84, 112, 113, 122, 124, 135, 143-144, 153

Preset, 13, 14, 21-22, 28-29, 30, 31, 33-35, 94, 98, 167, 170

Proportions, 16, 45, 49, 63-64, 83. 124, 144, 153, 171, 175, 178, 218 Props. 143, 148

#### R

Realistic, 21, 57, 82, 86, 88, 96, 151, 163, 164, 168, 174, 177-178, 186, 214

Reference 20-21 38-39 75 84 86, 89-90, 92, 93, 97, 102, 104, 112, 122-123, 139-140, 142, 144-145, 150, 167-168, 176, 181, 226 Resize, 17, 183, 210, 213, 217

Resolution, 14-15, 65, 135, 137, 152, 211, 217

Rotate, 19, 26, 71, 90, 136, 183, 210, 217

Saturation 26 40-41 59 68 77. 78, 93, 99, 131, 145, 148, 167-170. 172, 175, 177, 178, 179-180, 186,

Scale, 16, 17, 44, 61, 86, 156-157, 171, 210, 212, 214, 218

Scar. 94,169-170 Scattering, 35, 99, 167, 175, 179-180

Scene, 57, 71, 74, 81, 112, 114, 158 Shading, 123, 163, 171, 172-173

Shadow, 76, 94, 97-98, 118, 131, 139, 147-148, 156, 162-163, 166, 172, 174-175, 178-181, 183-187, 214, 216

Sharpen, 177, 181, 218

Shoulders, 48-49, 55, 60, 83, 113, 122, 123, 133, 140, 153, 165, 225 Silhouette, 33, 49, 70, 84, 89, 124-127, 135, 139-140, 144-145, 147, 152-153, 164, 175, 212, 215 Skeleton, 50, 60, 84

Skin, 7, 28, 33-34, 46, 56, 66, 76, 81-82, 85-86, 90, 92-94, 102, 110, 114, 122-123, 135-137, 161-162, 165, 167-170, 172, 174, 177-179

Smile, 46, 57, 143

Smooth, 26, 33, 94, 105, 169, 172. 176, 177, 184, 186, 218

Smudge, 59, 100, 164, 174-176, 186 210 218

Soften, 59, 79, 175, 186 Speckle, 33-35, 168, 177, 179

Specular, 162, 166, 170, 173, 180 Story, 33, 46, 50-51, 56, 60, 70, 72, 74-75, 77, 96-97, 104, 122, 155,

Symmetry, 50, 58, 66, 67, 144, 168

## T

Tattoo, 171, 202 Teeth, 180

Texture, 8, 21, 25-27, 34-35, 81, 86, 90, 94, 98, 99, 105, 108, 116, 118, 127, 131, 138-139, 146-147, 151, 153, 154, 157-158, 163, 167-169 175, 177, 179, 181, 183-184, 186, 217 226

Theme, 104, 126, 134-135, 138, 150-151

Throat 157

Thumbnail, 21, 29, 31, 78-79, 108, 143 44-145 182

Tone, 25, 36, 40, 46, 50, 55, 74, 85-86, 92-93, 99, 116, 126, 131, 135-137, 144, 151, 152-153, 155, 167, 169, 171, 174, 177-179, 181, 212, 214

Torso, 48, 112, 135 Transform, 16-17, 19, 21, 26, 61, 71, 86, 118, 124-125, 132, 144, 147, 152, 156-157, 171, 210, 217-219 Transparent, 22-23, 35, 78, 84, 98,

151,152, 154, 155, 163, 167, 168, 174-175, 177, 180, 182, 215-216

#### U

Unnatural, 57, 178 Unsharp, 218 UV. 36, 123

Values, 8, 13-14, 25-26, 38-40, 57, 59, 68-69, 74, 76, 79, 84-86, 90, 94, 97-98, 100-101, 105-107, 109, 115-116, 127, 144, 146, 153-155, 157, 164, 167, 170-172, 173, 177-180, 185, 213-215, 219

Vibrant, 74, 86, 94, 110, 118, 134,

Villain, 46, 55-56, 75, 104, 206 Volume, 34, 85, 98, 100, 102, 104-105, 107, 131, 144, 146, 164, 165, 168, 170, 174, 175, 177, 179-180, 186, 226

Warm 36 40 47 74 76 78 82 85-86, 88-89, 96, 99, 104, 105, 112, 122, 128, 131, 135, 137, 145, 152-153, 155, 165, 167, 184, 212

Werp, 118, 155-157, 171, 219 Warrior, 55, 57, 60, 196

Weapon, 55, 56-57, 60, 113, 186 Workflows, 7-8, 11, 18, 28, 30, 58, 81, 84, 121, 123, 125, 127, 129, 131, 133, 135, 137, 139, 141, 143, 145, 147, 149, 151, 153, 155, 157, 159 Wrap, 127, 155, 158, 170, 171, 173 180, 182

Wrinkle, 107, 113, 146, 147, 157, 168

Youthful, 36, 44, 60-61, 157, 167, 172, 176

## 7

Zoom 14-15, 66, 114, 137, 139. 217 219

# beginner's guide to digital painting in Photoshop: Characters

Following on from the highly successful Beginner's Guide to Digital Painting in Photoshop, this latest little explores the popular techniques used in character dealon.

Beginner's Guide to Digital Painting: Characters is a comprehensive guide for artists wishing to create convincing and detailed characters. It features established artists such as Charlie Bowater (concept artist at Atomhawk) and Derek Stenning (freelance concept artist and illustrator, with clients including Marvel Entertainment and Nintendo) who share their industry experiences by covering such aspects as posing characters, choosing the correct costumes, conveying emotions, and creating suitable moods. Comprehensive step-by-step instructions – including a quick tips section that covers how to paint elements that are integral to character design – make this an invaluable resource for those looking to learn new skills, as well as those pursuing the next level.













"These tutorials not only provide interesting exercises for the beginner to help build a strong foundation for drawing and painting, but also provide important insights into the mindset of a concept artist. Very useful and inspiring?"

> Lois Van Baarle (alla Lois) Digital concept artist & animator . loish nei







